



Final

**Site 30, Daycare Center
Record of Decision/Remedial Action Plan**

**Naval Station Treasure Island
Treasure Island, San Francisco, California**

July 2009

CALIFORNIA REGIONAL WATER

JUL 28 2009

QUALITY CONTROL BOARD

Prepared for:

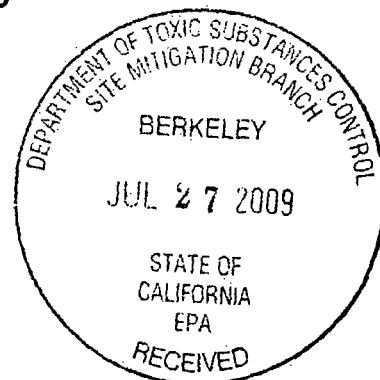
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ACRONYMS AND ABBREVIATIONS

§	Section
ARAR	applicable or relevant and appropriate requirement
Basin Plan	Bay Basin water quality control plan
Bay	San Francisco Bay
BERA	Baseline Ecological Risk Assessment
bgs	below ground surface
Cal/EPA	California Environmental Protection Agency
CCSF	City and County of San Francisco
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
COC	chemicals of concern
COPC	chemical of potential concern
COPEC	chemical of potential ecological concern
DDT	dichlorodiphenyltrichloroethane
DoD	Department of Defense
DTSC	Department of Toxic Substances Control
EBS	environmental baseline survey
EC	engineering control
EPA	U.S. Environmental Protection Agency
EPC	exposure point concentration
ERA	ecological risk assessment
ESD	explanation of significant difference
FFSRA	Federal Facility Site Remediation Agreement
FOSL	Finding of Suitability to Lease
FS	feasibility study
HEAST	Health Effects Assessment Summary Tables
HHRA	human health risk assessment
HI	hazard index
HSAA	Hazardous Substances Account Act
HSC	Health and Safety Code
IC	institutional control
IR	Installation Restoration
IRIS	Integrated Risk Information System
MCL	maximum contaminant level
mg/kg	milligrams per kilogram
mg/L	milligrams per liter

ACRONYMS AND ABBREVIATIONS (Continued)

NAVFAC SW	Naval Facilities Engineering Command Southwest
NAVSTA TI	Naval Station Treasure Island
Navy	Department of the Navy
NBAR	Nonbinding Allocation of Responsibility
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
ng/kg	nanograms per kilogram
O&M	operations and maintenance
PA/SI	preliminary assessment/site inspection
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
PP	Proposed Plan
PRG	preliminary remediation goal
PRP	potentially responsible party
PPRTV	Provisional Peer-Reviewed Toxicity Values
RAB	Restoration Advisory Board
RAO	remedial action objective
RAGS	Risk Assessment Guidance for Superfund
RAP	Remedial Action Plan
RAWP	Remedial Action Work Plan
Reuse Plan	Draft Naval Station Treasure Island Reuse Plan
RfD	reference dose
RI	remedial investigation
RME	reasonable maximum exposure
ROD	Record of Decision
SARA	Superfund Amendments and Reauthorization Act
SLERA	screening-level ecological risk assessment
SVOC	semivolatile organic compound
SWRCB	State Water Resources Control Board
TCRA	time-critical removal action
TDS	total dissolved solids
TEQ	toxic equivalent
TI	Treasure Island
TPH	total petroleum hydrocarbons
VOC	volatile organic compounds
Water Board	San Francisco Bay Regional Water Quality Control Board
YBI	Yerba Buena Island

1.0 DECLARATION

This Record of Decision (ROD)/Remedial Action Plan (RAP) documents the selected remedial actions for Installation Restoration (IR) Site 30, Daycare Center, Naval Station Treasure Island (NAVSTA TI), San Francisco, California. The ROD/RAP serves as a legal document that certifies the remedy-selection process for the site and was carried out in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended by the Superfund Amendments and Reauthorization Act (SARA) and, to the extent practicable, the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), the State of California Health and Safety Code (HSC), and the Hazardous Substances Account Act (HSAA), Section (§) 25356.1. It also provides a substantive summary of the technical rationale and background information contained in the Administrative Record. As a technical document, the ROD/RAP provides information necessary for determining the engineering components of the remedy. It also outlines the remedial action objectives (RAOs) and cleanup levels for the selected remedy, and is a key tool for communication with the public.

Section 1 provides an overview of the ROD/RAP and includes specific information such as site name and location, purpose of the document, summary of site conditions, selected alternative, and statutory determinations.

1.1 SITE NAME AND LOCATION

In 1993, NAVSTA TI was designated for closure under the Base Closure and Realignment Act of 1990. In 2002, in an effort to facilitate environmental cleanup, the Department of the Navy (Navy), in consultation with the California Environmental Protection Agency (Cal/EPA) Department of Toxic Substances Control (DTSC), the San Francisco Bay Regional Water Quality Control Board (Water Board), and the U.S. Environmental Protection Agency (EPA) Region IX, designated the Daycare Center area as IR Site 30. This ROD/RAP addresses Site 30.

During the environmental baseline survey (EBS), NAVSTA TI was divided into a number of parcels. Site 30, which is part of Treasure Island (TI) Parcel T094, was undeveloped until 1985, when a portion of the parcel was developed by the Navy for a child care facility. The child care facility was operated by the Navy until NAVSTA TI closed in 1997. After the closure of the naval station, the property was leased under the Finding of Suitability to Lease (FOSL) Zone 1D to the City and County of San Francisco (CCSF) on July 29, 1997 (PRC and Uribe 1997). Kidango renovated and reopened the facility as a daycare center on March 17, 2003. In April 2002, a 1989 as-built drawing was discovered indicating that the Navy Public Works Center installed an 8-inch water line down the middle of 11th Street. A note on the as-built drawing for the water line project identified an "old trash dump" within the western portion of the water line excavation along 11th Street between Avenues D and E (Shaw 2003). Subsequently, a multi-phase investigation and removal action was conducted beginning in May 2002 to determine the nature and extent of the buried debris (Shaw 2003; 2004). Based on the findings of the early phases of this investigation, the Navy designated a portion of Parcel T094 as IR Site 30 on September 6, 2002 (Shaw 2003).

1.2 STATEMENT OF BASIS AND PURPOSE

This decision document presents the basis for the selected remedy for Site 30, Daycare Center, at NAVSTA TI. The remedy was selected in accordance with CERCLA, as amended by the SARA and the NCP. This decision document satisfies all requirements of a ROD under CERCLA and is based on the Administrative Record for this site. In addition, the decision was made in accordance with the State of California HSAA codified in Chapter 6.8 of the California HSC. It is the Navy's intent that this document meets the requirements of HSC § 25356.1, which is a State requirement for RAPs at remedial sites; however for the purpose of this ROD, § 25356.1 is not considered an applicable or relevant and appropriate requirement (ARAR). The "Statement of Reasons" and the "Nonbinding Allocation of Responsibility" (NBAR) required by the HSAA are presented in Appendix A and Section 3.4.

In 1992, the Navy entered into a Federal Facility Site Remediation Agreement (FFSRA) with the State of California that stipulates the type, scope, and schedule of environmental work to be conducted at NAVSTA TI. The FFSRA identifies the regulatory agencies responsible for oversight of all related work at NAVSTA TI. These agencies include Cal/EPA DTSC and the Water Board. The FFSRA is scheduled to be updated annually in the site management plan.

The Navy, with the concurrence of DTSC and the Water Board as indicated by their signatures, has selected engineering controls (ECs) combined with institutional controls (ICs) as the remedial alternative to address risk posed by dioxins in soil at Site 30. Although not a signatory agency, the EPA has reviewed all major documents and concurs with the selected alternative. This ROD/RAP is supported by the Administrative Record for this selected alternative, which is located at the Information Repositories at TI Building 1, Room 161, 410 Palm Avenue, Treasure Island, San Francisco, California, and the San Francisco Public Library in the Government Publications Section, 100 Larkin Street, San Francisco, California. The Administrative Record index for Site 30 is presented in Appendix B.

This ROD/RAP describes how the selected remedy satisfies environmental regulations and how each remedial alternative was evaluated against the nine criteria for remedy selection. Information supporting the selected remedy is contained in the Administrative Record file for this site. The ROD/RAP also includes a responsiveness summary, which describes the public participation activities conducted and provides responses to comments received during the public comment period.

1.3 ASSESSMENT OF THE SITES

The response action selected in this ROD/RAP is appropriate to protect the health of potential human and ecological receptors from releases of hazardous substances into the environment.

1.4 DESCRIPTION OF THE SELECTED REMEDY

The Navy, with the concurrence of the State of California, has selected ECs combined with ICs as the selected remedy for Site 30. The remedy addresses the principal threats by preventing exposure to potentially contaminated soils beneath the Daycare Center building, and would allow Site 30 to be used in its current and future use as a daycare center.

Environmental data collected between 2002 and 2004 were used to determine the extent of contamination in soil and groundwater and to evaluate potential risks to the environment. During these investigations, soil and groundwater were sampled for chemical analysis and the results were evaluated to determine the risk they might pose to human and ecological receptors.

Based on the information and data evaluated as part of the remedial investigation (RI) for Site 30, the site does not pose an unacceptable risk for the current and future use as a daycare center. The risk for daycare center children and adults was below the risk management range both with and without the asphalt and concrete pad (i.e., Site 30 Concrete Pad) adjacent to the daycare center building. The human health risk associated with the commercial/industrial and residential alternative land use scenarios were within the risk management range. The selected remedy would allow for current and future use of the daycare center to continue, and would use ICs and ECs to maintain the building slab in order to ensure that the slab continues to serve as an exposure prevention barrier for daycare center children and adults to potential contamination at the site. ICs would ensure that potential commercial/industrial and residential receptors were protected from contamination beneath the Site 30 Concrete Pad and building slab by prohibiting any future activities that may disturb or alter the concrete pad and building slab without prior notification and written approval from DTSC. Detailed risk information is provided in the RI report (SulTech 2006b).

After the property is transferred from the Navy, if the transferee chooses to remove the building slab and concrete pad to facilitate future development, the transferee would need to secure DTSC's written approval for removal or waiver of the restriction in the ICs. To obtain Navy and regulatory agency approval for removal or waiver of the restriction in the ICs, the transferee will (1) conduct additional investigation to evaluate the risk from any contamination that may be present beneath the building slab and concrete pad and (2) conduct remediation if the risk evaluation indicates that additional remediation is necessary.

1.5 STATUTORY DETERMINATIONS

The selected remedies satisfy the statutory requirements of CERCLA because they promote protection of human and ecological receptors at Site 30.

ICs will be imposed at Site 30 to prevent possible future exposure to potential contaminants in soil beneath Building 502. This remedy has good short-term and long-term effectiveness, but will not reduce the mobility, volume, or toxicity of the potentially hazardous constituents in soil. The selected remedy is also cost-effective. However, because the selected remedy may leave contaminants on site above levels that allow for unlimited use and unrestricted exposure, a statutory review will be conducted five years after the remedy is in place. The review will evaluate whether the remedy continues to be sufficiently protective of human health and the environment.

1.6 ROD/RAP DATA CERTIFICATION CHECKLIST

The following information required for a ROD in CERCLA is included in the decision summary section of this ROD/RAP:

CERCLA Checklist Item	Location
1. Chemicals of concern (COC) and their respective concentrations	Section 2.5 – Site Characteristics and Sampling History
2. Baseline risk associated with the COC	Section 2.7 – Summary of Site Risks
3. Remedial action objectives and the basis for these objectives (in lieu of cleanup goals)	Section 2.8 – Remedial Action Objectives
4. Source material constituting principal threats	Section 2.11 - Principal Threat Wastes
5. Current and reasonably anticipated future land-use assumptions and current and potential future beneficial uses of groundwater	Section 2.6 – Current and Potential Future Land and Resource Use
6. Potential land and groundwater use that will be available at the site as a result of the selected remedy	Section 2.12 – Selected Remedy
7. Estimated costs of the selected remedy	Section 2.12 – Selected Remedy
8. Key factors that led to selecting the remedy	Section 2.12 – Selected Remedy

The information required in a RAP by HSAA § 25356.1(e) can be found in the sections of the ROD/RAP listed below. In addition, HSAA § 25356.1(d) requires that RAPs include a statement of reasons setting forth the basis for the removal and remedial actions selected. The statement of reasons is located in Appendix A of this ROD/RAP.

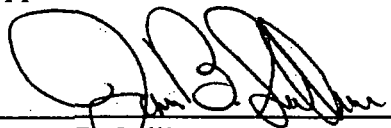
HSAA Requirement	Location
1. Basis for the remedial action selected	Section 2.7.3 - Basis for Taking Action
2. Evaluation of each alternative considered and rejected	Section 2.9 – Description of Alternatives
3. Explanation for rejection of alternative remedial actions considered but rejected	Section 2.9 – Description of Alternatives
4. Evaluation of the consistency of the selected remedial action with the requirements of the federal regulations and the factors specified in subdivision (d), if those factors are not otherwise adequately addressed through compliance with the federal regulations	Appendix A – Statement of Reasons
5. A nonbinding preliminary allocation of responsibility among all identifiable potentially responsible parties (PRPs)	Section 3.4 – Nonbinding Allocation of Responsibility Appendix A – Statement of Reasons

Additional information can be found in the Administrative Record located in the Information Repositories for Site 30 at TI Building 1, Room 161, 410 Palm Avenue, Treasure Island, San Francisco, California, and the San Francisco Public Library in the Government Publications Section, 100 Larkin Street, San Francisco, California. The Administrative Record is maintained at the Naval Facilities Engineering Command Southwest (NAVFAC SW), San Diego.

1.7

DECLARATION STATEMENT AND AUTHORIZING SIGNATURE

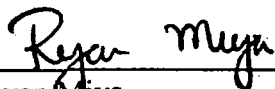
Based on the evaluation of analytical data, historical information, assessment of risk, and site inspections described in the Final RI Report (SulTech 2006b), the Navy, with the concurrence of DTSC and the Water Board, has concluded that remedial action is required for Site 30, Daycare Center, at NAVSTA TI. The remedial action selected for Site 30 is ECs combined with ICs. Furthermore, hazardous substances are present in Site 30 soils at concentrations above acceptable risk levels; therefore, the 5-year review requirement of CERCLA § 121(c) is applicable.



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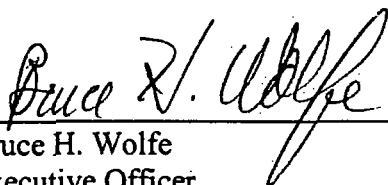
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2.0 DECISION SUMMARY

This decision summary provides an overview of the installation and its history, environmental conditions, and potential risks from soils within Site 30 at NAVSTA TI, and the basis for the remedial action decision.

2.1 SITE NAME, LOCATION, AND DESCRIPTION

NAVSTA TI lies in San Francisco Bay (Bay), midway between San Francisco and Oakland, California. The Naval facility consists of two contiguous islands: TI, and Yerba Buena Island (YBI). Site 30, Daycare Center, consists of approximately 1.5 acres located in the northwest portion of TI (Figures 1 and 2).

2.2 SITE HISTORY AND ENFORCEMENT ACTIVITIES

TI was built in 1936 and 1937 on the Yerba Buena Shoals, a sand spit extending from the northwest point of YBI. The island was originally used for the Golden Gate International Exposition in 1939. In 1941, in response to a Navy request, the City of San Francisco leased TI, YBI, and the surrounding offshore area to the Navy for the duration of World War II. After the war, the City of San Francisco agreed to trade the deed of NAVSTA TI to the Navy in exchange for government-owned land south of San Francisco. The Navy operated TI for various Naval activities, including a medical clinic, fuel farm, service station, fire training school, waterfront facilities, ammunition storage, troop and family housing, personnel support, a brig, and a Navy and Marine Corps museum.

The IR program was established by the Department of Defense (DoD) in 1975 to identify, assess, characterize, and clean up or control contamination caused by historical disposal activities and other operations at military installations. The Navy IR program was formally established in 1986. The IR program is carried out in accordance with all Federal, State and local laws. The primary Federal laws are CERCLA and the SARA.

The preliminary assessment/site inspection (PA/SI) was completed at NAVSTA TI in April 1987 (Dames and Moore 1988). In 1993, NAVSTA TI was designated for closure under the Base Closure and Realignment Act of 1990. In 1994 and 1995, the Navy conducted a thorough EBS (ERM-West 1995). Naval operations were shut down in 1997, and reuse of the property is currently coordinated by the TI Redevelopment Authority.

During the EBS, NAVSTA TI was divided into a number of parcels. Site 30, which is part of TI Parcel T094, was undeveloped until 1985, when a portion of the parcel was developed by the Navy for a child care facility. The child care facility was operated by the Navy until NAVSTA TI closed in 1997. After the closure of the naval station, the property was leased under the FOSL Zone 1D to the City and County of San Francisco on July 29, 1997 (PRC and Uribe 1997). Kidango renovated and reopened the facility as a daycare center on March 17, 2003.

In April 2002, a 1989 as-built drawing was discovered indicating that the Navy Public Works Center installed an 8-inch water line down the middle of 11th Street. A note on the as-built drawing for the water line project identified an "old trash dump" within the western portion of the water line excavation along 11th Street between Avenues D and E (Shaw 2003). Subsequently, a multi-phase investigation and removal action was conducted beginning in May 2002 to determine the nature and extent of the buried debris (Shaw 2003; 2004). Based on the findings of the early phases of this investigation, the Navy designated a portion of Parcel T094 as IR Site 30 on September 6, 2002 (Shaw 2003).

Based on soil and groundwater data collected during a trench investigation in 2002, time-critical removal action (TCRA) in 2002/2003, and 2004 groundwater investigation, the Navy finalized the RI report for Site 30 in February 2006 (SulTech 2006b), followed by a feasibility study (FS) in November 2006 (SulTech 2006a).

There are no enforcement activities relating to Site 30. Environmental investigations associated with Site 30 are implemented under the installation-wide environmental program.

2.3 COMMUNITY PARTICIPATION

The community relations plan for NAVSTA TI was updated in May 2008 (Tetra Tech 2008). The Navy maintains an active community participation program through the TI Restoration Advisory Board (RAB). The RAB is made up of Federal, State, and local government representatives and citizens. Through regular meetings, the Navy informs the RAB of the progress of investigative activities and solicits input on planned investigations and actions. In addition, the Navy issues fact sheets and newsletters to keep the general public informed of IR activities at NAVSTA TI and follows CERCLA community relations requirements.

The FS report for Site 30 was completed in November 2006 (SulTech 2006a). The Proposed Plan (PP)/Draft RAP for Site 30, Daycare Center, was released to the public on September 23, 2008 (BAI 2008). The PP/Draft RAP was made available for a 30-day public review through both the Administrative Record located at NAVFAC SW, San Diego, California and the Information Repositories located at 410 Palm Avenue, Building 1, Room 161, Treasure Island, San Francisco, California, and the San Francisco Public Library in the Government Publications Section, 100 Larkin Street, San Francisco, California.

The notice of availability for the PP/Draft RAP was published in the *San Francisco Chronicle* on September 23, 2008. A public comment period was held through October 23, 2008. A public meeting was held on October 7, 2008 at the Casa de la Vista, Building 271, Treasure Island, San Francisco. At this meeting, representatives from the Navy, DTSC, and Water Board were available to answer questions about Site 30 at NAVSTA TI and describe the basis for the proposed remedial action. The Navy's response to comments received during the public meeting and the public comment period is included in the Responsiveness Summary (Section 3.0). The public notice, roster of public meeting attendees, and public meeting transcript are included in Appendix C.

These community participation activities fulfill the requirements of §§ 113(k)(2)(B)(i-v) and 117(a)(2) of CERCLA, § 300.430(f)(3) of the NCP, and the HSAA (HSC § 25356.1).

2.4 SCOPE AND ROLE OF RESPONSE ACTION

This ROD addresses soil at Site 30. The site has not been divided into operable units or otherwise subdivided. The selected remedial action, ECs combined with ICs will not affect remediation of nearby IR sites or overall remedial efforts at NAVSTA TI.

2.5 SITE CHARACTERISTICS AND SAMPLING HISTORY

The following sections provide a summary of the site characteristics and sampling history for Site 30.

2.5.1 Site Characteristics

Site 30 is bounded to the north by a line drawn 2 feet north of the daycare center fence, to the east by Avenue E (inclusive of Avenue E), to the south by 10th Street (excluding 10th Street), and to the west by the sidewalk of Avenue D (Figure 2). Site 30 is a relatively small site with an area of approximately 1.5 acres. The shortest distance between Site 30 and the Bay is approximately 1,200 feet. The site boundary of adjacent IR Site 31 was modified in February 2005 to include the sidewalks on the south side of 11th Street (Figure 2). Site 30 includes Building 502, which is currently used as a daycare center. The daycare center property is fenced and consists of the daycare center building surrounded by paved or landscaped areas (Figure 2). Access to the property is provided only through the front entrance of the daycare center. A wooden fence prevents unauthorized access to the daycare center play yard. The paved areas, which comprise the majority of the property, include walking paths, playground, storage areas, a parking lot, and a concrete and asphalt pad (i.e. Site 30 Concrete Pad). This pad was installed in January 2003 (Figure 2) as part of the TCRA at Parcel T094 (Shaw 2003). Small grass lawns and landscaped areas cover a smaller fraction of the property.

2.5.2 Ecological Setting

Generally, the terrestrial habitat of TI is of poor quality for wildlife species, since the island is predominantly covered by anthropogenic features. To increase the understanding of the habitat and conditions found at IR sites on both TI and YBI, a group of Navy and Federal, State, and regional agency representatives drove and walked through the IR sites on both TI and YBI. During the site tour conducted on June 3, 1994, the group characterized the habitat on TI as poor quality, with large areas of pavement, gravel, or buildings restricting use of the sites by receptors of concern (EPA 1994; Navy 1994). Additionally, the vegetated parts of TI consist of lawns and landscaped areas. Lawns generally provide poor habitat and the landscaped areas are planted with predominantly non-native species. Disturbance from vehicular traffic and widespread human presence also reduce the quality of the habitat for wildlife species at TI (Tetra Tech 1997).

2.5.3 Investigation History

This section describes the investigations performed at NAVSTA TI relevant to Site 30. The Final RI Report for NAVSTA TI Site 30 provides a more thorough discussion of these investigations (SulTech 2006b).

Exploratory Trenching and Subsurface Investigations at Site 30

An exploratory trenching and subsurface investigation was performed at Parcel T094 in 2002. This investigation was performed following the discovery of a note on the as-built drawing for the 11th Street water main. The note indicated a “trash dump” was present along 11th Street in the vicinity of the former NAVSTA TI child care facility (Shaw 2003). The exploratory trenching and subsurface investigation was performed in five phases and included Site 31 which is located immediately north of Site 30. Following the first phase, the additional phases were performed to fill data gaps identified in the earlier phases. Trenches were typically 5 feet long, a minimum of 4 feet deep, and 1 to 1.5 feet wide. All trenches were logged for debris, and soil samples were collected for analysis of polycyclic aromatic hydrocarbons (PAH), metals, organochlorine pesticides, polychlorinated biphenyls (PCBs), and dioxins. Many of the soil samples, particularly those collected for analysis for dioxins, were biased toward intervals where contamination was likely present, such as intervals with burnt debris.

Volatile organic compounds (VOC), total petroleum hydrocarbons (TPH), PAHs, pesticides, and metals were detected in soil samples from Site 30. VOCs were detected at concentrations below the residential preliminary remediation goals (PRGs). Concentrations of TPH were detected in some samples, but none were above the NAVSTA TI residential field screening levels (SulTech 2006a). PAHs were not present above the benzo(a)pyrene equivalent field screening level of 0.62 milligrams per kilogram (mg/kg). Pesticides were also detected at low concentrations at Site 30; however one sample, out of 98 samples analyzed, contained dichlorodiphenyl-trichloroethane (DDT) at a concentration of 2.24 mg/kg, which exceeds the EPA residential PRG of 1.7 mg/kg. PCBs were detected at concentrations below the residential PRG. Only three metals were detected in soil at concentrations above their residential PRG. Lead was present above the NAVSTA TI ambient concentration in 82 of the 152 samples, but was above the residential PRG in only three samples. Arsenic was present above the NAVSTA TI ambient concentration in one of 98 samples, and was above the residential PRG in all 98 samples. Vanadium was present above ambient concentrations in 23 of 98 samples, but only one sample had a concentration above the residential PRG.

All of the soil samples collected for dioxin analysis were biased towards intervals and locations where dioxins would most likely be encountered, such as burnt debris areas. Figure 3 provides the locations and results of soil samples collected for dioxins at Site 30. Six of 19 soil samples exceeded the EPA residential PRG of 3.9 nanograms per kilogram (ng/kg) for dioxin toxic equivalent (TEQ) (EPA 2004; SulTech 2006a). Two of these samples exceeded both the NAVSTA TI dioxin ambient concentration of 12.0 ng/kg and the field screening concentration of 19.0 ng/kg (Shaw 2003). These two samples were collected at depths of 4.0 and 5.0 feet below ground surface (bgs) from investigatory trenches excavated on the west side of Building 502. The purpose of the trenches was investigatory; however, the trenches were not extended further along Building 502 because of concerns regarding the undermining of the foundation. Other locations containing dioxin TEQ concentrations exceeding the residential PRG, but below the ambient level, are on the west side of Building 502 (Shaw 2003). Because burnt debris was visually identified in the two trenches adjacent to Building 502, the full lateral and vertical extent of dioxin contamination beneath Building 502 has not been determined (SulTech 2006a).

The results of the trenching investigation led the Navy to perform a TCRA on part of Site 30 and nearby portions of Site 31.

Time-Critical Removal Action at Site 30

A TCRA was performed at Site 30 in July 2002. The objective was to remove debris-contaminated soil from areas that 1) were not already covered with a substantial pavement barrier, 2) contained concentrations of lead exceeding the residential PRG of 400 mg/kg, or 3) contained dioxin TEQ concentrations exceeding the guideline of DTSC's School Property Evaluation and Cleanup Division of 19.5 ng/kg. A total of approximately 200 cubic yards of soil was removed from Site 30 during this removal action at the location shown on Figure 3. In addition, a 1,400 square foot concrete and asphalt pad (Site 30 Concrete Pad) was installed adjacent to the daycare center building (Shaw 2003) (Figure 3) in order to cover soil containing dioxin TEQ concentrations exceeding the 19.5 ng/kg guideline found adjacent to Building 502 at a depth between 4 and 5 feet bgs. Although the concrete pad was installed as an interim measure to prevent exposure to dioxins in soil, the results of the subsequent human health risk assessment (HHRA) determined the risk to daycare center receptors to be below the risk management range. Therefore, the concrete pad is not needed as an exposure prevention barrier for the daycare center receptors (SulTech 2006a).

Groundwater Microwell Installation

In 2004, eight direct-push borings were advanced and logged as part of an installation of temporary microwells to investigate groundwater at IR Sites 30 and 31 (SulTech 2004). Groundwater samples were collected from two temporary wells at Site 30 (30/31MW06 and 30/31MW08). One of these wells (30/31MW08) is located in Avenue E and is upgradient of both Building 502 and the Site 30 Time-Critical Removal Area. The other well (30/31MW06) was located in 11th Street, downgradient of both Building 502 and the Site 30 Time-Critical Removal Area (SulTech 2004). Groundwater sampling at Site 30 and adjacent Site 31 was conducted in May 2004 to assess the impacts to shallow groundwater from various known chemicals detected in the soil at the two sites (Shaw 2003; 2004).

Groundwater samples were analyzed for VOCs, semivolatile organic compounds (SVOC), TPH, pesticides, PCBs, metals, and dioxins. Two VOCs and three metals were detected in groundwater at Site 30. The VOCs were detected at concentrations below the maximum contaminant level (MCL). The concentrations of metals were below the applicable MCL or NAVSTA TI ambient concentrations (SulTech 2006a). SVOCs, pesticides, PCBs, and dioxins were not detected in groundwater.

2.6 CURRENT AND POTENTIAL FUTURE LAND AND RESOURCE USE

2.6.1 Land Use

According to the "Draft Naval Station Treasure Island Reuse Plan" (Reuse Plan) (CCSF 1996), the reuse of the portion of NAVSTA TI which includes Site 30, is designated as "Residential/Open Space/Publicly Oriented Uses". However, Table 7 of the Reuse Plan specifically identifies Building 502 for "Institutional Use" and the text of the plan indicates that the daycare center is part of the Reuse Plan (CCSF 1996). According to the plan, the following activities may be undertaken in the area:

- Theme parks
- Destination entertainment
- Hotel and resort
- Conference and meeting rooms
- Spectator sports and recreation areas (including golf)
- Community recreation
- Specialty restaurant and retail
- Performance, exposition, and display
- Festivals, markets, and fairs
- Film production and associated offices
- Museums and cultural institutions
- Neighborhood retail
- Employee housing for publicly-oriented uses

The Draft 1996 Reuse Plan describes the daycare center within the “Educational/Institutional Services” section and states “These users are generally very cost sensitive, and will be candidates for the reuse of existing facilities” (CCSF 1996). Recent comments by CCSF officials indicate the daycare center will be relocated; however Site 30 is expected to continue as a daycare center for the reasonably foreseeable future (Navy 2006).

2.6.2 Resource Use

As part of the November 1995 groundwater sampling event, groundwater samples from all 86 wells at NAVSTA TI were analyzed for total dissolved solids (TDS). Using the TDS criterion of 3,000 milligrams per liter to define potential sources of drinking water as specified by the State Water Resources Control Board (SWRCB), Resolution No. 88-63, potentially suitable drinking water at NAVSTA TI exists from the water table surface to an estimated depth of 33 feet bgs.

The minimum production criterion to define potential sources of drinking water is a well yield of more than 200 gallons per day (SWRCB 1988). Pump tests, well development rates, and hydraulic conductivity values from slug testing (5 to 16 feet per day) indicate NAVSTA TI wells can yield more than 200 gallons per day.

Under the Bay Basin water quality control plan (Basin Plan), all groundwater within the Bay Basin that meets the criteria of SWRCB Resolution No. 88-63 has a potential beneficial use for municipal or domestic supply (SWRCB 1988). The Water Board, however, completed a pilot beneficial use designation project for several groundwater basins in San Francisco and Northern San Mateo Counties, including NAVSTA TI and YBI (Water Board 1996). The report indicated that the use of groundwater for municipal and domestic supply at NAVSTA TI would be limited by (1) the small volume of fresh groundwater available, (2) the likelihood of saltwater intrusion, and (3) potential future ground improvements for stability (stone columns and dynamic compaction). Consequently, the report recommended that the Basin Plan be revised so that groundwater at NAVSTA TI is no longer designated as a potential municipal or domestic water supply. These recommendations apply to current and future use of groundwater resources at Site 30 at NAVSTA TI.

In a letter from the Water Board to the Navy, the Water Board provided its concurrence that groundwater at NAVSTA TI meets the exemption criteria in SWRCB Sources of Drinking Water Resolution 88-63, but retains its designation for potential agricultural, process, and industrial supply (Water Board 2001).

2.7 SUMMARY OF SITE RISKS

The following sections provide a summary of the human health and ecological risks for Site 30.

2.7.1 Human Health Risks

The HHRA results for Site 30 are summarized below, including the total reasonable maximum exposure (RME) cancer risks and noncancer hazard indices (HIs) (including background). Receptor scenarios evaluated in the risk assessment include current land use (current and altered site conditions), and alternative land use scenarios (commercial/industrial, resident, and construction worker).

Exposure Assessment

Under the exposure assessment, potential human populations and related exposure pathways were identified based on current and expected future uses of the land. This step also involved compiling or developing receptor-specific intake assumptions, estimating exposure point concentration (EPC), and estimating daily chemical intakes for each receptor. Together with chemical intakes, EPCs were used to estimate pathway-specific intakes (doses) for use in subsequent risk calculations.

The present use of Site 30 as a daycare center is considered the reasonably foreseeable use of Site 30. The receptor evaluated for the current use was a daycare child. Risk calculations for the daycare child were deemed to be protective of the daycare worker. Two scenarios were evaluated under current use: (1) current conditions and (2) altered site conditions consisting of removal of the Site 30 Concrete Pad adjacent to Building 502. Both scenarios assume the existing Building 502 remains and functions as an effective exposure prevention barrier to uncharacterized soils located below. Evaluation of alternative land uses included commercial/industrial, resident, and construction worker scenarios. A recreational user was not evaluated at the site because future reuse indicated other receptors were more appropriate.

The standard EPA methods were used to estimate EPCs for direct-contact exposures (for example, ingestion of soil), and the EPC was based directly on the measured chemical of potential concern (COPC) levels in soil. The standard EPA Risk Assessment Guidance for Superfund (RAGS) equations were applied to determine daily doses (EPA 1989). Daily doses represent an estimated amount of a COPC to which a hypothetical human receptor might be exposed and were estimated for each receptor and each complete and significant exposure pathway.

Toxicity Assessment

The toxicity assessment for the HHRA included identification of toxicity values used to characterize noncancer health effects and cancer risk, respectively. Method 1 calculations used federal-recommended toxicity values and Method 2 used state-recommended toxicity values.

For Method 1, toxicity factors recommended by EPA Region IX were compiled from EPA-approved sources following the recommended hierarchy:

- Integrated Risk Information System (IRIS) (EPA 2005).
- EPA's Provisional Peer-Reviewed Toxicity Values (PPRTV) presented in EPA Region IX's PRG table (EPA 2004).
- Other EPA and non-EPA sources, including Agency for Toxic Substances and Disease Registry (ATSDR) minimal risk levels (ATSDR 2004), Office of Environmental Health Hazard Assessment (OEHHA) online resource, "Toxicity Criteria Database" (OEHHA 2005), and EPA's Health Effects Assessment Summary Tables (HEAST) (EPA 1997b).

For Method 2, DTSC recommended the use of the most health-protective of Federal and OEHHA slope factors for evaluating cancer risks. To evaluate noncancer effects from inhalation exposures, inhalation reference doses (RfDs) or reference concentrations were compiled from IRIS, the OEHHA "Toxicity Criteria Database" (as reference exposure levels) (OEHHA 2005), or other EPA sources (PPRTVs, HEAST, or route extrapolated values), in decreasing order of priority.

RfDs were developed to evaluate noncancer effects, and cancer slope factors were developed to evaluate chemicals classified as known or potential human carcinogens (EPA 1989). In the event a chemical was considered to cause both cancer and noncancer adverse health effects, both slope factors and RfDs were listed for a chemical. Toxicity values were compiled for each COPC identified and cancer risks and noncancer adverse health effects were estimated.

Risk Characterization

The risk characterization step combines the results of the previously described steps to estimate cancer risks and noncancer effects (as HI). Because carcinogens and noncarcinogens manifest their effects through uniquely different mechanisms, adverse health effects are estimated separately for chemical carcinogens and noncarcinogens. For each receptor, cancer risks and HIs were estimated separately for each COPC and each complete exposure pathway. Cancer risk estimates and HIs were then summed across media and exposure pathways for a combined effect estimate. Results of the HHRA for Site 30 are summarized below and in Table 1.

- The risk to daycare center receptors is below the risk management range and the site does not pose an unacceptable risk (SulTech 2006b) both with and without the concrete pad adjacent to Building 502.
- The risk to the construction worker was below the risk management range. The human health risk calculated for construction workers is also protective of current utility workers who may visit the site on an infrequent basis to repair subsurface utility lines. The

construction worker evaluation, which assumes exposure of 1 year, is a conservative evaluation for the utility worker who is likely to be on site only for a few days. The risk was calculated assuming that the concrete pad has been removed. Therefore, no remedial actions are necessary for a current utility worker (SulTech 2006b).

- The risk associated with the residential alternative land use was within the risk management range, with a maximum risk of 1×10^{-5} and an HI of 1 for subsurface soil (defined as 0 foot bgs to groundwater). The risk to hypothetical commercial/industrial workers was calculated to be within the risk management range, with a maximum risk of 3×10^{-6} assuming exposure to subsurface soils. The risk was calculated assuming that the concrete pad has been removed. The primary risk driver for both residential and commercial/industrial scenarios was identified as dioxins.

Dioxins were identified as a risk driver for future commercial/industrial and residential exposures to combined surface and subsurface soil (0 ft bgs to groundwater). Risks from dioxins were estimated using a dioxin TEQ EPC of 32.1 ng/kg and were largely driven by two concentrations, 27.7 and 34.1 ng/kg, in samples collected from locations currently beneath the Site 30 concrete and asphalt pad at depths of 4 and 5 feet bgs, respectively. Only 4 of the dioxin TEQ concentrations for the remaining 17 samples in the combined surface and subsurface soil data set exceeded the EPA Region IX PRG for residential soil of 3.9 ng/kg (EPA 2004), but these concentrations were below the ambient soil dioxin TEQ level for NAVSTA TI of 12 ng/kg (DTSC 2004). Therefore, the potential cancer risks associated with alternative land use receptor scenarios are largely driven by dioxin TEQ concentrations at the two locations beneath the pad, as well as concentrations within ambient levels.

The potential for human health effects caused by lead is typically estimated based on blood-lead concentrations. LeadSpread modeling (DTSC 1999) was performed to evaluate blood-lead levels in a daycare center child, and adult and child residents. Blood-lead modeling results were below the target criteria (99th percentile concentrations below 10 micrograms per deciliter) for all three receptors for modeled EPC. To evaluate potential deleterious effects from exposure to lead in soil for construction workers and commercial/industrial workers, EPCs were compared to the EPA Region IX PRG for industrial soil, 800 mg/kg, and were found to be well below this benchmark.

Contaminants of Concern for Site 30

In summary, the risk assessment identified no COCs for the current and planned use of Site 30 as a daycare center. Additionally, no COCs were identified for the construction worker scenario. Under the alternative land use scenarios for commercial/industrial or residential receptors, dioxin is the only designated COC for Site 30.

The RI report recommended a FS be performed to evaluate remedial alternatives that would ensure protection of human health in the event that Building 502 were to be demolished and the area redeveloped for residential or commercial/industrial use. The dioxin TEQ EPC used in the risk assessment was 32.1 ng/kg. The EPC was largely driven by two concentrations, 27.7 and 34.1 ng/kg, in samples collected from locations currently beneath the Site 30 concrete and asphalt pad at depths of 4 and 5 feet bgs, respectively. Only 4 of the dioxin TEQ concentrations for the remaining 17 samples in the combined surface and subsurface soil data set exceeded the

EPA Region IX PRG for residential soil of 3.9 ng/kg (EPA 2004), but these concentrations were below the ambient soil dioxin TEQ level for NAVSTA TI of 12 ng/kg (DTSC 2004). Dioxin concentrations beneath Building 502 are unknown. Dioxins were not detected in groundwater samples collected at Site 30.

Uncertainty Analysis

The HHRA included a number of uncertainties inherent in the risk assessment process. Depending on the type of uncertainty, impacts to HHRA results can include an over- or underestimation of cancer risks or HIs. The uncertainties for the HHRA at Site 30 are described in the RI report and summarized below.

Uncertainties were identified in association with four areas of the exposure assessment process: (1) selection of exposure scenarios, (2) selection of exposure pathways, (3) estimation of EPCs, and (4) selection of exposure variables used to estimate chemical intake. All uncertainties are expected to result in conservative estimates rather than underestimation of unforeseen human health risks. Details of the exposure assessment uncertainties are discussed in the RI report.

Uncertainties may arise from the use of Method 1 and Method 2 toxicity factors. Differences between Method 1 and Method 2 RME potential cancer risk and noncancer hazard estimates were only significant for the daycare center child for both of the exposure scenarios evaluated, direct contact exposures to surface soil (0 to 2 feet bgs) in the unpaved areas within the daycare center fenced area (current site conditions), and direct contact exposures to surface soil (0 to 2 feet bgs) in the unpaved areas as well as the area currently protected by the Site 30 Concrete Pad (altered site conditions) (Table 1). Although the Method 2 potential cancer risks estimated for daycare center children were up to three orders of magnitude greater than the corresponding Method 1 values, these differences did not have a significant impact on the risk assessment conclusions. Under current site conditions, the Method 1 and Method 2 RME potential cancer risk estimates were below the risk management range.

Under altered site conditions, the Method 1 RME potential cancer risk estimated for daycare center children was less than the risk management range; an RME potential cancer risk of 1×10^{-6} was estimated for Method 2 after rounding up to one significant figure. The differences were the result of the risk-based screening step in the COPC selection process for Method 1, which was not implemented in the COPC selection process for Method 2, as well as different EPA and DTSC opinions of the carcinogenic potential of naphthalene. As presented in the RI, no COPCs were selected under Method 1 from the two surface soil data sets evaluated for direct contact exposures for daycare center receptors because the maximum detected concentrations in these data sets were less than EPA Region IX PRGs for residential soil. As risk-based screening was not implemented in the COPC selection process for Method 2, the additional COPCs selected from the data sets for daycare center children contributed to the resulting difference in the cumulative cancer risks and hazard indices (Table 1). In addition, exposure to naphthalene via the indoor inhalation pathway contributed a chemical-specific cancer risk of 2×10^{-7} to the cumulative Method 2 cancer risks for daycare center children. Whereas a unit risk value for naphthalene is available from OEHHHA for the quantitative estimation of potential cancer risks from inhalation exposures (OEHHHA 2005) (used in Method 2 cancer risk estimates), no unit risk value for naphthalene was used in the Method 1 cancer risk estimates as EPA considers the available evidence for carcinogenicity insufficient for the derivation of a unit risk value (EPA 2005).

All remaining Method 1 and Method 2 potential cancer risks and noncancer HIs for alternative land uses were different by less than an order of magnitude (Table 1). Estimates of potential cancer risks for construction workers, residents, or commercial/industrial workers were uniformly within or below the EPA risk management range of 1×10^{-6} to 1×10^{-4} and noncancer HIs for these receptors were below or equal to the HI benchmark of 1 after application of either toxicity assessment. Therefore, any uncertainties pertaining to differences in preferred COPC selection criteria and toxicity criteria for the two methods were deemed to be immaterial to the conclusions of the HHRA.

In summary, the HHRA was developed based on a series of assumptions, almost all conservative, that are expected to result in overestimation of risks.

2.7.2 Ecological Risks

A Tier I screening-level ecological risk assessment (SLERA) for terrestrial receptors exposed to soil was performed at IR Sites 6, 12, 21, 24, 30, 31, 32, and 33 (SulTech 2007). Navy policy for conducting environmental risk assessments identifies a three-tiered approach that incorporates different levels of complexity. This approach consists of the following tiers: Tier I, SLERA; Tier II, Baseline Ecological Risk Assessment (BERA); and Tier III, evaluation of remedial alternatives. Sites identified in Tier I as posing potential unacceptable risks proceed to a Tier II BERA. The SLERA did not identify any ecological resources or processes at TI that needed to be protected or sustained. Based on the overall poor quality of the habitat on TI, the Navy does not recommend further evaluation of ecological risk in a Tier II assessment (SulTech 2007). The SLERA is described below.

Identification of Chemicals of Potential Ecological Concern

All detected inorganic and organic chemicals in soil, except for essential nutrients such as calcium, iron, magnesium, potassium, and sodium, were selected for evaluation as preliminary chemicals of potential ecological concern (COPECs) for IR Sites 6, 12, 21, 24, 30, 31, 32, and 33. Analytical data for soil samples (0 to 4 feet bgs) within the boundaries of each site collected between 1992 and 2005 were used for preliminary identification of COPECs.

Exposure Assessment

Exposure pathways and routes were evaluated during the SLERA. Figure 5 shows the potential ecological receptors and pathways for the sites studied in the SLERA.

Definitions of valuable ecological resources include those without which ecosystem function would be significantly impaired; those that provide critical resources; and those perceived by humans as valuable, such as endangered species (EPA 1997a, 1998; Navy 1999, 2004). TI is not a natural ecosystem; rather, it is a man-made island built from dredge material from the Bay. TI has never supported a natural ecosystem or provided habitat for valuable ecological receptors. Because of the artificial and disturbed nature of the sites, exposure to plants and invertebrates is limited to opportunistic species that can adapt to high disturbance regimes. Future exposure will also be limited to species adapted to urban, landscaped habitats because urban redevelopment is planned for each of the sites once TI has been transferred (CCSF 1996). Although the exposure pathway evaluation links site contaminants in soil to ecological receptors, it does not link ecologically valuable endpoints to contamination.

Habitat surveys conducted at Site 30 did not identify any ecological resources or processes without which ecosystem function would be significantly impaired. Based on the overall poor quality of the habitat on TI, no further evaluation of ecological risk is necessary in a Tier II assessment for Site 30.

Ecological Effects Assessment

Assessment endpoints are environmental characteristics that, if significantly impaired, would indicate a need for action by risk managers. Because of the poor-quality habitat, receptor use of TI is limited to opportunistic species that are adapted to urban environments. Loss of one or more of the species present on TI would not result in any disruption or change to the current ecosystem. However, because assessment endpoints are necessary to proceed to Step 2 of the SLERA, assessment endpoints were selected based solely on trophic levels present on TI and include urban species adapted to industrial and landscaped habitat.

Ecological Risk Characterization

In a SLERA, it is necessary to identify (1) what specifically is to be protected, and (2) which ecological resources and processes must be sustained and for what reason. TI is not a natural ecosystem; rather, it is a man-made island built from dredge material from the Bay. TI has never supported a natural ecosystem or provided habitat for ecologically relevant receptors. Future exposure will also be limited to species adapted to urban, landscaped habitats because urban redevelopment is planned for each of the sites once TI has been transferred (CCSF 1996).

The SLERA did not identify any ecological resources or processes at TI that needed to be protected or sustained. Based on the overall poor quality of the habitat on TI, no further evaluation of ecological risk in a Tier II assessment is necessary for Site 30. The SLERA fulfills the CERCLA requirement for conducting an ecological risk assessment (ERA) to assess threats to the environment for these sites.

2.7.3 Basis for Taking Action

The response action selected in this ROD is necessary to protect the public health or welfare from actual or threatened releases of hazardous substances into the environment. Specifically, the response action addresses risk posed by dioxin in soil to potential residential and commercial/industrial receptors. RAOs were developed to address this risk, as discussed below.

2.8 REMEDIAL ACTION OBJECTIVES

RAOs are medium-specific (soil, groundwater, or air) goals for protecting human health or the environment. According to EPA guidance, an RAO should specify (1) the COC; (2) exposure routes and receptors, and (3) an acceptable contaminant level or range of levels for each exposure route (i.e., remediation goals) (EPA 1988). The remedial goals are usually chemical concentration limits, which provide a quantitative means of identifying areas for potential remedial action, screening the types of appropriate technologies, and assessing a remedial action's potential for achievement of the RAO. Remedial goals are also the performance requirements and the main basis for measuring the success of the response actions.

The risk at the site for daycare center adults and children under the current and future use configuration as a daycare center, including the location under Site 30 Concrete Pad and unpaved areas, is below the risk management range of 1×10^{-4} to 1×10^{-6} . However, under alternative commercial/industrial and residential land use scenarios, the risk is within the risk management range. The only medium which presents a concern at Site 30 is soil adjacent to and beneath Building 502; therefore RAOs are developed only for soil.

Based on the potential for receptors to be exposed to soils containing unknown concentrations of dioxin beneath Building 502, the following RAOs were developed for Site 30:

- To protect potential future commercial/industrial and potential future residential receptors by preventing the ingestion and direct contact with soils containing dioxin TEQ above the previously established ambient dioxin TEQ of 12 ng/kg beneath and adjacent to Building 502.
- To protect the current daycare center receptor by preventing the ingestion of and direct contact with soils containing unknown concentrations above the previously established ambient dioxin TEQ of 12 ng/kg beneath Building 502.

In developing the RAOs for dioxin, the preliminary remedial goal is set at a dioxin TEQ concentration of 12 ng/kg, which is the ambient level established for NAVSTA TI (DTSC 2004). The uncertainties identified in the HHRA are likely to result in overestimation of risk at Site 30; therefore, the RAOs established for the site represent a conservative level of protection.

2.9 DESCRIPTION OF ALTERNATIVES

Based on the results of the RI, a FS was conducted to evaluate remedial alternatives for Site 30. The FS presented a screening of remedial technologies and general process options and developed three remedial alternatives for Site 30:

- Alternative 1: No Action
- Alternative 2: ECs Combined with ICs
- Alternative 3: Building Demolition, Excavation, and Off-Site Disposal at a Permitted Landfill

Each alternative is described below, followed by a comparison of the alternatives based on the nine EPA criteria.

2.9.1 Alternative 1: No Action

“No Action” implies no remedial action will be conducted on site. Under the No Action alternative, soil would be left in place without implementing any ICs, containment, removal, treatment, or other mitigating actions. The NCP requires the no action response be evaluated in every FS because it provides a baseline for comparison to the other remedial alternatives (40 Code of Federal Regulations [CFR] Subsection 300.430[e][6]). There are no costs associated with this alternative.

2.9.2 Alternative 2: Engineering Controls Combined with Institutional Controls

Remedial Alternative 2 uses a combination of ECs and ICs to prevent exposure to the contaminated soils beneath Building 502. The results of the risk assessment indicate that for the current and planned future use of Site 30 as a daycare center, the site-related risk is below the risk management range, even if the Site 30 Concrete Pad adjacent to Building 502 at Site 30 is removed. However, because the nature and extent of dioxin contamination beneath Building 502 has not been characterized, there is a need to prevent exposure to potentially contaminated soils beneath Building 502. Under remedial Alternative 2, the existing daycare center building slab would be maintained as an effective exposure prevention barrier for the current and planned future use as a daycare center. This concrete pad would not be maintained as an EC because contaminants beneath the pad do not pose a risk to current use of the site as a daycare center. ICs would be implemented to address risk from soil beneath the pad by prohibiting site occupants from removing or penetrating the Site 30 Concrete Pad, except when following specific guidelines to prevent the exposure to potentially contaminated soils. Provisions for making any required repairs to subsurface utilities beneath Building 502 would be provided. Annual inspections, documentation, and IC oversight will be coordinated with DTSC.

The following sections present the elements of Alternative 2 and describe the ECs and ICs used for this alternative. The estimated cost of this alternative is \$782,000.

Engineering Controls

ECs considered for Site 30 include maintaining the existing daycare center building slab as an effective exposure prevention barrier. The plans for Building 502 indicate the existing daycare center building slab is 10.25 inches of concrete consisting of a 4-inch thick reinforced sub-slab, a 3.25-inch airfloor/concrete layer, and a 3-inch thick reinforced concrete layer over the airfloor/concrete layer (see Figure 6). Airfloor is an interlocking metal form which provides both ventilation and radiant heat. Beneath this rigid system are a 2-inch sand layer, a vapor barrier, a capillary water barrier, and a minimum of 9 inches of engineered fill (Navy 1982). The existing daycare center building slab is considered to be an effective EC because of its thickness, construction, and the presence of several layers of clean fill material immediately beneath the building slab which provides further separation between the slab and potentially contaminated soils. The ICs would require inspection, maintenance, and reporting of the Site 30 Concrete Pad and Building 502 building slab to ensure remedy compliance. The existing daycare center building slab is not likely to require maintenance to continue to function as an effective exposure prevention barrier; however, periodic inspections would be required to verify the slab's performance as an effective exposure prevention barrier. With regard to the adjacent Site 30 Concrete Pad, maintenance of this pad would not be required under current use as a daycare center, as risk under this scenario is below the risk management range. Risk to potential commercial/industrial or residential receptors would be managed through the ICs, as discussed below.

Institutional Controls

Alternative 2 would implement ICs to restrict site occupants from removing or penetrating the building slab or Site 30 Concrete Pad that act as exposure prevention barriers, except when following specific guidelines to prevent the exposure to potentially contaminated soils. Since the

daycare center is presently being used, provisions would be made to allow for utility repair (such as water or sewer repairs) which may be required as part of the general maintenance of the building. These measures would require all subsurface work within the known or potentially contaminated areas be performed using measures designed to prevent the exposure of the occupants and workers to potentially contaminated soil. The alternative land use scenarios would require the maintenance of the existing effective exposure prevention barrier (existing daycare center building slab and Site 30 Concrete Pad). After the property is transferred from the Navy, if the transferee chooses to remove the building slab and concrete pad to facilitate future development, the transferee would need to secure DTSC's written approval for removal or waiver of the restriction in the ICs. To obtain Navy and regulatory agency approval for removal or waiver of the restriction in the ICs, the transferee will (1) conduct additional investigation to evaluate the risk from any contamination that may be present beneath the building slab and concrete pad and (2) conduct remediation if the risk evaluation indicates that additional remediation is necessary.

Additional elements of Alternative 2:

- *A "Covenant to Restrict Use of Property, Environmental Restriction" to (1) prohibit any removal of the Building 502 slab, (2) require periodic inspection of the Building 502 and reporting of the inspection results, (3) provisions for making utility repairs, as necessary, (4) require remedial investigation and any necessary remediation beneath Building 502 upon building demolition and removal.*
- *A Notice and Restrictive Covenant included in a quitclaim deed from the Navy to the property recipient.*
- *A Remedial Action Work Plan (RAWP) including an operations and maintenance plan, developed as part of the Remedial Design, to specify the roles and responsibilities for implementing, monitoring, and enforcing the institutional controls, including soil management procedures and requirements that must be followed should future utility repairs or general building maintenance activities encounter potentially impacted soils beneath the building slab and concrete pad.*

2.9.3 Alternative 3: Building Demolition, Excavation, and Off-Site Disposal at a Permitted Landfill

Remedial Alternative 3, Building Demolition, Excavation, and Off-Site Disposal at a Permitted Landfill, is the active remediation alternative intended to meet the DoD requirement of evaluating an alternative which would result in "unrestricted" use of the site. This requirement is applicable when the FS evaluates alternatives which involve the use of land use controls (DoD 2001). The results of the risk assessment indicate that for the current and planned future use of Site 30 as a daycare center, the site-related risk is below the risk management range. However, Alternative 3 assumes removal of Building 502 and therefore addresses the concern from unknown possible dioxin TEQ concentrations beneath this building. Remedial Alternative 3 involves the demolition of the existing daycare center building (Building 502) and associated slab to allow for access to the potentially contaminated soil. The existing paved areas (e.g., sidewalks, parking lot) at the site, excluding Building 502 and concrete and asphalt pad installed in 2003, would not be removed as part of this alternative. The potentially contaminated soil

beneath Building 502 and the concrete and asphalt pad would then be delineated and all contaminated soil identified within these areas would be excavated and transported to a landfill for disposal. The excavation would then be backfilled with clean soil. Alternative 3 does not include the construction of a new daycare center. The cost for this alternative is estimated to be \$2,086,000.

A temporary fence would be installed around the site to prevent unauthorized persons from entering the site during remedial action activities. The existing 10,800 square foot building would be demolished, and a soil investigation would be performed to determine the extent of dioxin contamination within the building footprint. For the purposes of developing a cost estimate for this alternative, it is assumed all soil beneath the entire 10,800 square foot building and the 1,200 square foot concrete and asphalt pad will require excavation to a depth of 6 feet.

The excavation depth was determined to be 6 feet bgs based on dioxin concentrations above the NAVSTA TI dioxin ambient level of 12.0 ng/kg detected at a maximum depth of 5 feet bgs. The soil beneath the concrete and asphalt pad is included in the cost estimate because the soil samples which have detected dioxin at concentrations above the ambient dioxin TEQ preliminary remedial goal are located beneath the concrete and asphalt pad. An estimated 3,120 cubic yards of building demolition debris would require disposal as nonhazardous waste at a permitted landfill. Based on excavation to 6 feet bgs, it is assumed an estimated 2,667 cubic yards (bank measure) of contaminated soil would be excavated and transported as a hazardous waste to an appropriately permitted landfill for disposal. The excavated area would be backfilled with clean soil and returned to approximately existing grades.

The intent of the remedial action described in Alternative 3 is to achieve unrestricted use of the site. It is assumed that following the completion of this alternative, the RAOs will have been achieved without the need for ECs and ICs. However, soils containing dioxin concentrations above the remediation goal may exist deeper than 6 feet bgs beneath Building 502. For the purpose of developing a cost estimate, the depth of 6 feet bgs was chosen based on the analytical results indicating elevated dioxin concentrations are present to a maximum depth of 5 feet bgs.

2.10 COMPARATIVE ANALYSIS OF ALTERNATIVES

The remedial action alternatives considered represent a range of distinct environmental restoration strategies that fulfill the RAOs associated with dioxin contamination in soil at Site 30. The alternatives were evaluated against the nine EPA criteria listed below:

- **Overall Protection of Human Health and the Environment** determines whether an alternative eliminates, reduces, or controls threats to public health and the environment through ICs, ECs, or treatment.
- **Compliance with ARARs** evaluates whether the alternative meets Federal and State environmental statutes, regulations, and other requirements that pertain to the site.
- **Long-Term Effectiveness and Permanence** considers the ability of an alternative to maintain protection of human health and the environment over time.

- **Reduction of Toxicity, Mobility, or Volume of Contaminants through Treatment** evaluates an alternative's use of treatment to reduce the harmful effects of principal contaminants, their ability to move in the environment, and amount of contamination present.
- **Short-Term Effectiveness** considers the length of time needed to implement an alternative and the risks the alternative poses to workers, residents, and the environment during implementation.
- **Implementability** considers the technical and administrative feasibility of implementing the alternative, including factors such as the relative availability of goods and services.
- **Cost** includes estimated capital and annual operations and maintenance (O&M) costs, as well as present worth cost. Present worth cost is the total cost of an alternative over time in terms of today's dollar value. Cost estimates are expected to be accurate within a range of +50 to -30 percent.
- **Community Acceptance** considers whether the local community agrees with Navy's analyses and preferred alternative. Comments received on the PP/Draft RAP are an important indicator of community acceptance.
- **Regulatory Approval** considers whether the State and other regulatory agencies agree with the Navy's analyses and recommendations, as described in the RI/FS and PP/Draft RAP.

These criteria are used to evaluate the cleanup alternatives proposed for this site. The first seven criteria are discussed in the following alternative comparison. The last two criteria were addressed through public comment and regulatory agency review periods. The final decision on the remedy for Site 30 was made by the Navy and the State regulatory agencies after receiving and evaluating the public input.

2.10.1 Overall Protection of Human Health and the Environment

Results of the HHRA indicate the site does not pose an unacceptable risk under present conditions with the existing daycare center building slab serving as an effective exposure prevention barrier. However, dioxin may be present in soil beneath Building 502 at concentrations high enough to represent an unacceptable risk and health hazard to daycare center receptors and hypothetical commercial/industrial or residential receptors, assuming the existing daycare center building slab is removed. Dioxin beneath the Site 30 Concrete Pad adjacent to Building 502 represents unacceptable risk to hypothetical commercial/industrial receptors and residents.

All alternatives would protect human health and the environment under the current and future use of the site as a daycare center; however, only Alternatives 2 and 3 are protective of human health under alternative land use scenarios. Alternative 1 does not protect the alternative land use scenario receptors against exposure to potential dioxin contamination beneath and adjacent to Building 502.

Since there are no enforcement or monitoring components associated with Alternative 1, this alternative provides no mechanisms to ensure its effectiveness in protecting human health and the environment and does not meet the threshold criteria. Alternative 2 employs ECs and ICs to ensure human exposure pathways remain incomplete by (1) requiring the existing daycare center building slab remain in place and be periodically inspected, and (2) requiring any alternative future reuse of the property maintain the existing daycare center building slab as an effective exposure prevention barrier and consider soil contamination beneath the Site 30 Concrete Pad. ICs would specify that any future plans to remove the building slab or Site 30 Concrete Pad would require RI and any necessary remediation. ICs for the site will also contain provisions for making utility repairs beneath the slab. Alternative 3 would remove any potentially contaminated soil, and the source for potential human health risk. Alternative 3 would allow for future unrestricted use of the site as commercial/industrial or residential without any further land use restrictions.

2.10.2 Compliance with Applicable or Relevant and Appropriate Requirements

Compliance with ARARs is also a threshold evaluation criterion. An alternative must either comply with ARARs or provide grounds for a waiver. There are no ARARs applicable to Alternative 1. Alternatives 2 and 3 are expected to meet the chemical-specific and potential action-specific ARARs identified in the FS Report.

2.10.3 Long-Term Effectiveness and Permanence

The residual contamination for Alternative 1 (No Action) and Alternative 2 (ECs Combined with ICs) is the same because no contamination is being removed or treated. However, the residual risk due to direct exposure to the contaminated soil beneath Building 502 is reduced by the implementation of the ECs and ICs for Alternative 2. Although these residual risks do not pose an unacceptable risk to human health or the environment based on the current and future use of the site as a daycare center, potential risks may exist from the direct contact and ingestion of potentially contaminated soil beneath the existing daycare center building slab if the integrity is compromised or destroyed. Alternative 1 provides no protection from these potential risks, whereas Alternatives 2 and 3 do provide protection from these potential risks.

No remedial action or implementation of ICs would be conducted under Alternative 1; therefore, Alternative 1 would not provide long-term effectiveness and permanence for preventing exposure to contaminated soil beneath the Site 30 Concrete Pad and potentially contaminated soils beneath the daycare center building.

Alternative 2 provides an adequate level of long-term effectiveness and permanence under current and future use as a daycare center and nonresidential alternative land use scenarios by requiring monitoring and reporting of the integrity of the existing daycare center building slab. The ICs may be removed or waived in the future after additional investigation and potential remediation, if necessary, is conducted to mitigate any risk due to contamination beneath the building slab and concrete pad. Alternative 2 provides permanence through the use of ICs, which may include restrictive covenants, negative easements, and deed restrictions. These ICs would transfer with the land and would be binding upon future owners and occupants of the

property. Procedures for implementing, monitoring, and enforcing the deed restrictions will be determined in the RAWP.

Alternative 3 provides a higher level of long-term effectiveness and permanence than Alternative 2 because potential contamination would be removed from under Building 502 and the associated pad and disposed of off-site at a permitted landfill.

2.10.4 Reduction of Mobility, Toxicity, or Volume through Treatment

None of the alternatives would reduce the mobility, toxicity, or volume of potential contamination through treatment. Alternatives 1 and 2 do not treat the potential contamination, or reduce its toxicity, mobility, or volume. Alternative 3 would remove the potential contamination from beneath Building 502 and the associated Site 30 Concrete Pad. Placing the material in an approved landfill would reduce the mobility of contaminants in the environment.

2.10.5 Short-Term Effectiveness

Alternatives 1 and 2 will not introduce a risk to the community or the environment in the short term, since no active treatment will be conducted. Alternatives 1 and 2 are effective in the short term because Site 30 poses no unacceptable risk and the anticipated future use of the site is the present use, as a daycare center. Alternative 2 is more effective than Alternative 1, because the ICs would prevent exposure to unknown dioxin TEQ beneath the building slab. Alternative 3 could introduce some risk to the community during field activities due to truck traffic; however, these risks could be mitigated through best management practices such as traffic control. Although the risk assessment indicates the risk to the construction worker is below the risk management range from contaminants present at the site, any construction or demolition poses some risks for workers. These construction-related risks can be mitigated through the use of best management safety practices. Alternative 3 field work is estimated to take 6 weeks to complete.

2.10.6 Implementability

All of the alternatives are technically feasible and readily implementable. Alternative 1 does not require any efforts to implement. Alternatives 2 and 3 are proven technologies, and it is unlikely that technical or administrative issues would delay implementing either of these alternatives. The materials and services necessary to implement Alternative 3 are readily available locally. All of the alternatives are considered to be equally implementable.

2.10.7 Cost

No costs are associated with Alternative 1. Alternative 3 has the highest overall costs (over \$2,086,000). Alternative 3 is 2.7 times the cost of Alternative 2 (\$782,000). The cost of Alternative 3 does not include the construction of a new daycare center. These order-of-magnitude cost estimates were prepared based on commercially available cost estimating tools and previous estimates (published and unpublished) for similar projects. Actual costs will depend on actual labor rates, productivity, the final project schedule, and other variable factors.

2.10.8 Community Acceptance and Regulatory Approval

Community acceptance and regulatory approval were solicited during the PP/Draft RAP process for the selected alternative. Community and state acceptance of the Navy's preferred alternative was addressed through meetings and formal response to comments, as summarized in Sections 2.3 and 3.0.

2.10.9 Comparative Analysis Summary

Under the current site configuration and current and future use as a daycare center, the site does not pose an unacceptable risk. The human health risk associated with the commercial/industrial and residential alternative land use scenarios were within the risk management range. This risk was based on the conservative assumption that the daycare center building slab, as an effective exposure prevention barrier, would prevent exposure to potentially contaminated soil. Alternative 2 would allow for current and future use of the daycare center to continue, and would use ICs to ensure the existing exposure prevention barrier (daycare center building slab) is periodically inspected to evaluate its integrity and to consider contamination beneath the Site 30 Concrete Pad regarding future development of the site. Alternative 3 would require the demolition of the existing daycare center building and slab to enable the potentially contaminated soil to be removed. The construction of a replacement daycare center, either on Site 30 or at another location, is not included as a component of Alternative 3.

Alternative 1 (No Action) provides the least degree of protectiveness in the event potentially contaminated soil exists beneath Building 502 at concentrations which would pose a threat to human health and therefore does not meet the threshold criteria. Alternative 2 (ECs Combined with ICs) and Alternative 3 (Building Demolition, Excavation, and Off-Site Disposal at a Permitted Landfill) would each protect human health and the environment and would each comply with ARARs.

Based on the comparative analysis described above and presented in Table 2, Alternative 2 has advantages compared to the other alternatives. Alternative 2 would prevent exposure to potentially contaminated soil beneath Building 502 and Site 30 Concrete Pad in both the short term and long term, and would allow Site 30 to be used in its current or future use as a daycare center, serving the community. The ICs may be waived or removed in the future after additional investigation and potential remediation is conducted to mitigate any risk due to contamination beneath the building slab and concrete pad. While Alternative 3 would prevent exposure to potentially contaminated soil beneath Building 502 by using active remediation (excavation and off-site disposal) to reduce risks for unrestricted commercial/industrial or residential reuse, the cost for this alternative would be 2.7 times as high and would require the demolition of the existing daycare center building.

2.11 PRINCIPAL THREAT WASTE

Principal threat wastes are those source materials considered to be highly toxic or highly mobile that cannot be reliably contained or that would present a significant risk to human health and the environment should exposure occur (EPA 1999). Principal threat wastes can include liquid source material, mobile source material, or highly toxic source material.

Hazardous substances have been identified at Site 30, however, these substances are considered to be low-level wastes because of their low concentrations and toxicity. Therefore, this remedy will meet the NCP's expectation "to use ECs such as containment for waste that poses a relatively low long-term threat" (40 CFR 300.430(a)(1)(iii)(B)).

2.12 SELECTED REMEDY

The rationale for the selected remedy, a description of the selected remedy, estimated remedy costs, and the expected outcomes of the selected remedy are described in detail below for contaminated soil at Site 30.

2.12.1 Rationale for the Selected Remedy

The Navy's selected remedy is Alternative 2, ECs combined with ICs. Alternative 2 would prevent exposure to potentially contaminated soils beneath Building 502 and Site 30 Concrete Pad in both the short term and long term, and would allow Site 30 to be used in its current and future use as a daycare center, serving the community. Alternative 2 would provide the most cost-effective remedial alternative that is adequately protective of human health. The primary rationale for selection of the remedies is to assure that human exposure to potential future receptors will be minimized. Alternative 1 was rejected because it would provide a lower degree of protection to potential human receptors at the site. Alternative 3 was rejected because the higher cost associated with excavation and removal are not warranted since the building slab provides an adequate barrier between potential receptors and any contamination that may be present.

2.12.2 Description of the Selected Remedy

The selected remedy, Alternative 2, will use ECs combined with ICs to prevent exposure to potentially contaminated soils beneath Building 502 and impacted soils beneath Site 30 Concrete Pad.

ECs will consist of maintaining the building foundation slab to prevent contact with potential dioxin contamination beneath the slab. The existing daycare center building slab would be maintained as an exposure prevention barrier. The existing slab is not likely to require maintenance to continue serving as an exposure prevention barrier; however, periodic inspections would be required to verify its integrity. The Site 30 Concrete Pad adjacent to Building 502 would not be maintained as an EC because contaminants beneath the pad do not pose a risk to current use of the site as a daycare center.

ICs will be implemented to address risk from soil beneath the Site 30 Concrete Pad to potential future users. ICs will restrict any removal or penetration of the Building 502 slab, except when following specific guidelines to prevent exposure to potentially contaminated soil. If utility repairs (such as water or sewer repairs) are required, measures would be implemented to prevent exposure of the occupants and workers to potentially contaminated soil. The ICs would require inspection, maintenance, and reporting of the Site 30 Concrete Pad and Building 502 building slab to ensure remedy compliance.

ICs will include:

- *A "Covenant to Restrict Use of Property, Environmental Restriction" to (1) prohibit any removal of the Building 502 slab, (2) require periodic inspection of the Building 502 and reporting of the inspection results, (3) provisions for making utility repairs, as necessary, (4) require remedial investigation and any necessary remediation beneath Building 502 upon building demolition and removal.*
- *A Notice and Restrictive Covenant included in a quitclaim deed from the Navy to the property recipient.*
- *A Remedial Action Work Plan (RAWP) including an operations and maintenance plan, developed as part of the Remedial Design, to specify the roles and responsibilities for implementing, monitoring, and enforcing the institutional controls, including soil management procedures and requirements that must be followed should future utility repairs or general building maintenance activities encounter potentially impacted soils beneath the building slab and concrete pad.*

Five-year reviews of the site conditions will be conducted to assure that the selected remedy is still protective of human health and the environment. The Navy is responsible for conducting the five-year reviews but may contractually arrange for a third party to assume responsibility for and perform the requisite five-year reviews.

After the property is transferred from the Navy, if the transferee chooses to remove the building slab and concrete pad to facilitate future development, the transferee would need to secure DTSC's written approval for removal or waiver of the restriction in the ICs. To obtain Navy and regulatory agency approval for removal or waiver of the restriction in the ICs, the transferee will (1) conduct additional investigation to evaluate the risk from any contamination that may be present beneath the building slab and concrete pad, and (2) conduct remediation if the risk evaluation indicates that additional remediation is necessary.

2.12.3 Summary of Estimated Remedy Costs

The estimated present-worth cost for the selected remedy is \$782,000. Table 3 contains a breakdown of the cost estimate for the selected remedy. The information in Table 3 is based on the best available information regarding the anticipated scope of the selected remedy. Changes in the cost elements are likely to occur as a result of new information and data collected during the engineering design phase of the selected remedy. Major changes may be documented in the form of a memorandum in the Administrative Record file, an explanation of significant differences (ESD), or a ROD amendment. This is an order-of-magnitude engineering cost estimate that is expected to be within +50 to -30 percent of the actual project cost.

The detailed cost analysis for the selected remedy includes an estimation of both capital and O&M costs. The costs were estimated for 30 year duration. The capital costs primarily involve preparation and implementation of the RAWP and include regulatory review. The O&M costs involve periodic inspections, annual reporting, and 5-year reviews pursuant to CERCLA.

2.12.4 Expected Outcomes of the Selected Remedy

ECs combined with ICs on land use for Site 30 are expected to meet the RAOs by preventing direct contact with soil by potential human receptors. The ECs will assure maintenance of the building slab and ICs will establish land use control mechanisms and procedures to allow DTSC to enforce them.

2.13 STATUTORY DETERMINATIONS

The primary responsibility under Superfund is to select remedial actions that are protective of human health and the environment. CERCLA also requires that the selected remedial action comply with ARARs established under Federal and State environmental laws. The selected remedy must also be cost-effective and utilize permanent treatment technologies or resource recovery technologies to the maximum extent practicable. The statute also contains a preference for remedies that include treatment as a principal element.

The following statutory determinations are provided to (1) describe how the selected remedy satisfies the statutory requirements of CERCLA § 121 [as required by NCP § 300.430(f)(5)(ii)] and (2) explain the five-year review requirements for the selected remedy.

Alternative 2, ECs combined with ICs, is the preferred remedy for dioxins in soil at Sites 30. The following sections summarize how well this remedy meets the statutory requirements.

Protection of Human Health and the Environment

The remedy selected for dioxins in soil at Site 30 will adequately protect human health through maintenance of the building slab and land-use controls by preventing exposure to the contaminants in soil. The chemicals in soil do not pose an unacceptable risk to ecological receptors.

IC will prevent future exposure to the contaminants in soil at Site 30. Although IC is an effective and accepted approach for reducing risk from direct contact with contaminated materials, the potential exists that ICs would not be enforced; therefore, the long-term effectiveness is not as great as treatment. However, treatment has been determined to be impracticable for Site 30 because of the limited potential risk and high cost of removing and replacing the daycare center building.

ICs have additional long-term management requirements (such as record keeping), which are critical for maintaining the protectiveness of this alternative.

Compliance with ARARs

ECs and ICs are expected to meet the action-specific ARARs identified in Appendix A of the FS Report. The action-specific ARARs are primarily California HSC requirements for ICs. No chemical- or action-specific ARARs were identified in the FS for the selected remedy.

Cost-Effectiveness

The selected remedy has good cost-effectiveness, with an estimated capital cost of \$322,100 to implement, O&M costs total \$173,700, and approximately \$285,700 for the five-year reviews, for a total present value of \$781,500. Active removal of soil from the site would have associated capital costs of more than \$2,000,000. The selected remedy achieves RAOs at a fraction of the cost of active treatment.

Use of Permanent Solutions or Innovative Treatment Technologies to the Maximum Extent Practicable

Risk is eliminated as long as controls are maintained. Because the receptor pathway is only controlled, the inherent hazard of waste remains. However, ICs to restrict future land use may be reliable through implementation of the future land-use plan, so the RAOs are likely to be achieved. Five-year review would be required because contaminants in soil would remain on site.

Preference for Treatment as a Principal Element

The selected remedy does not involve treatment of contaminants in soil, so it does not satisfy the statutory preference for treatment. However, the treatment options may be only marginally effective because of site-specific conditions and may produce more short-term exposure than the selected remedy.

Summary of Five-Year Review Requirements for the Selected Remedy

For sites where contaminants remain in place, the effectiveness of the remedy must be evaluated every five years for 30 years. In the case of the selected remedy at Site 30, this would include a site visit to ensure that the building slab and pad is intact and in good repair; and that deed or land-use restrictions are being administratively maintained. Costs are estimated to be \$77,400 for each of six 5-year reviews.

2.14 DOCUMENTATION OF SIGNIFICANT CHANGES

The PP/Draft RAP for Site 30, Daycare Center, was released for public comment on September 23, 2008. The PP/Draft RAP identified the selected remedial alternative for Site 30. The public comment period ran from September 23, 2008 through October 23, 2008. No public comments were received. It was determined that no significant changes to selected alternative, as originally identified in the PP/Draft RAP, were necessary or appropriate.

3.0 RESPONSIVENESS SUMMARY

This section presents the Navy's responses to comments on the PP/Draft RAP for Site 30, Daycare Center, NAVSTA TI.

3.1 STAKEHOLDER ISSUES AND NAVY RESPONSES

In preparing this responsiveness summary, the Navy followed "A Guide to Preparing Superfund Proposal Plans, Records of Decisions, and Other Remedy Selection Documents" (EPA OSWER Directive 9200.1-23P, July 1999). The responsiveness summary summarizes the views of the public and support agencies and documents in the record how public comments were integrated into the remedial decision. The guidance (EPA 1999) suggests that the responsiveness summary be organized into two sections:

1. Stakeholder Issues and Lead Agency Responses: Summarize and respond concisely to major issues raised by stakeholders (for example, community groups, support agencies, businesses, municipalities, and potentially responsible parties [PRPs]), and
2. Technical and Legal Issues, if necessary.

The PP/Draft RAP for IR Site 30 was made available to the public on September 23, 2008, thereby initiating the 30-day public comment period. The public meeting for the PP/Draft RAP for Site 30 was held on October 7, 2008, in the Casa de la Vista, Building 271, at TI, California. The public comment period ran from September 23, 2008 through October 23, 2008. Copies of the newspaper notice that announced the public comment period and the location and time of the public meeting are included in Appendix C.

The PP/Draft RAP presented the selected alternative for Site 30 (BAI 2008). Federal and state regulatory agencies concur with the selected alternative. The purpose of the PP/Draft RAP and the public meeting was to provide the public with a concise summary of the site investigation and information used to support the Navy's preferred alternative. A transcript of the public meeting and an attendance roster are also included in Appendix C.

Based on the comments received from support agencies during the public comment period, there are no outstanding technical or legal issues for this ROD. Therefore, only the Stakeholder Issues and Lead Agency Responses section is included in this responsiveness summary. The guidance recommends that "If the lead agency determines that a point-by-point response to a set of comments is warranted, a separate comment/response document should be prepared". The Navy has concluded that a separate point-by-point response document is not warranted and has responded in this responsiveness summary to all comments submitted.

No verbal comments were received during the public meeting on the PP/Draft RAP for Site 30. No written comments were received during the public comment period. A copy of the transcript for the public meeting is provided as Appendix C of this ROD.

The California Department of Fish and Game submitted comments on the PP on October 30, 2008. The comments were received after publication of the PP. The comments and the Navy's responses are located in Appendix D. Appendix E contains comments received from the DTSC and Water Board on the Draft ROD/RAP, along with the Navy's response to those comments.

3.2 TECHNICAL AND LEGAL ISSUES

No technical or legal issues were identified during the public comment period.

3.3 CALIFORNIA ENVIRONMENTAL QUALITY ACT

DTSC prepared an Initial Study to evaluate potential impact of the proposed project on the environment. The findings of the Initial Study indicate that the project would not have a significant effect on public health or the environment. Therefore, DTSC prepared a proposed Negative Declaration for the Site 30 cleanup. Both the Initial Study and proposed Negative Declaration were made available for review and comment during the public comment period. No comments were received during the comment period.

3.4 NONBINDING ALLOCATION OF RESPONSIBILITY

HSC § 25356.1(e) requires DTSC to prepare a preliminary NBAR among all identifiable PRPs. HSC § 25356.3(a) allows PRPs with an aggregate allocation in excess of 50 percent to convene an arbitration proceeding by submitting to binding arbitration before an arbitration panel. Based on available information regarding the former NAVSTA TI, DTSC determined that the Navy is a responsible party with aggregate alleged liability in excess of 50 percent of the costs of removal and remedial action pursuant to HSC § 25356.3.

The sole purpose of the NBAR is to establish which PRPs will have an aggregate allocation in excess of 50 percent and can therefore convene arbitration if they so choose. The NBAR, which is based on the evidence available to the DTSC, is not binding on anyone, including PRPs, DTSC, or the arbitration panel. If a panel is convened, its proceedings are de novo and do not constitute a review of the provisional allocation. The arbitration panel's allocation will be based on the panel's application of the criteria spelled out in HSC § 25356.3(c) to the evidence produced at the arbitration hearing. Once arbitration is convened, or waived, the NBAR has no further effect, in arbitration, litigation or any other proceeding, except that both the NBAR and the arbitration panel's allocation are admissible in a court of law, pursuant to HSC § 25356.7 for the sole purpose of showing the good faith of the parties who have discharged the arbitration panel's decision.

DTSC sets forth the following preliminary NBAR for the former NAVSTA TI: The U.S. Department of the Navy is allocated 100 percent responsibility.

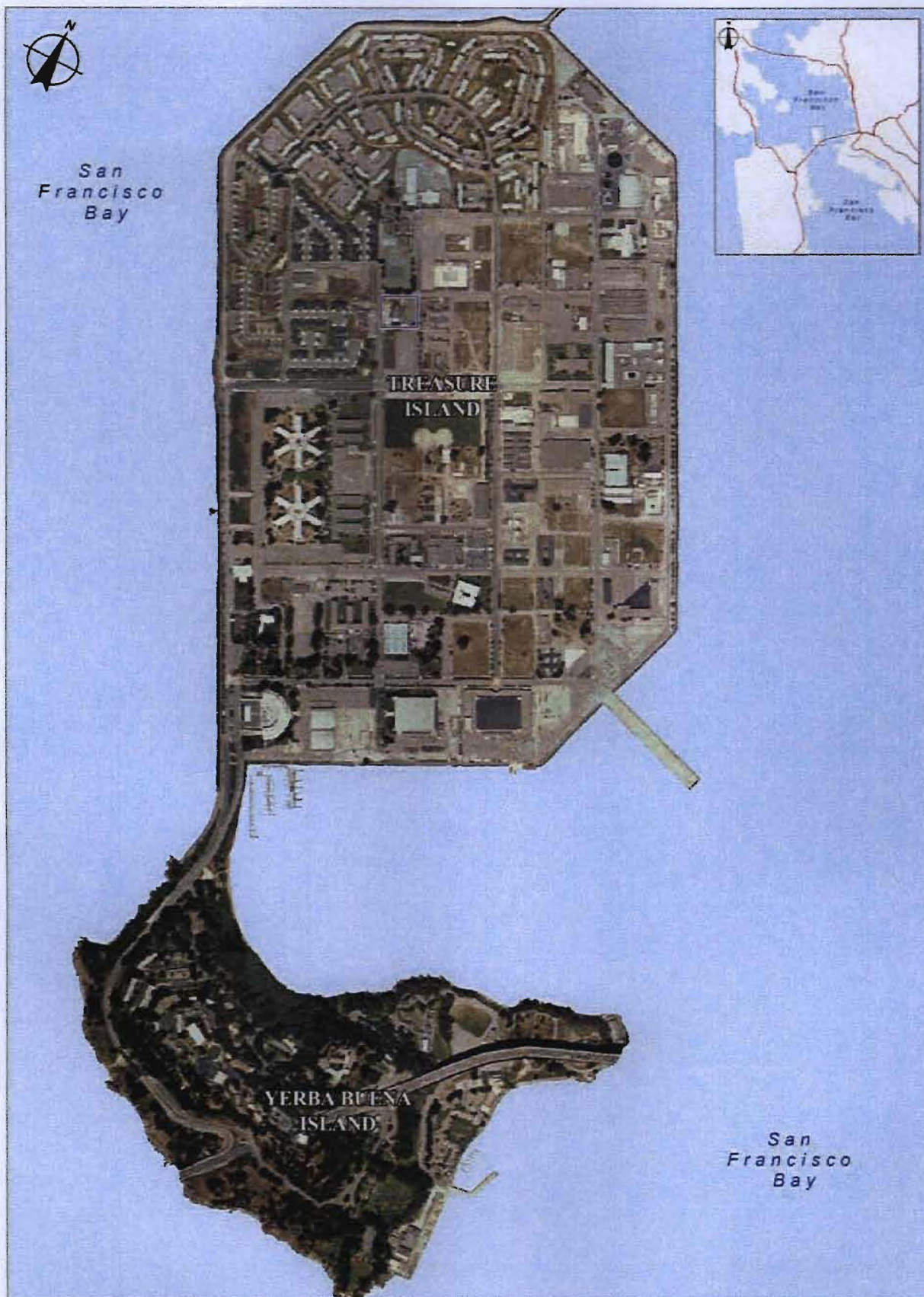
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FIGURES



Note:
Aerial photograph taken by HJW Geospatial Inc. on
February 18, 2003; photograph georeferenced by Tetra Tech.

□ SITE 30 BOUNDARY

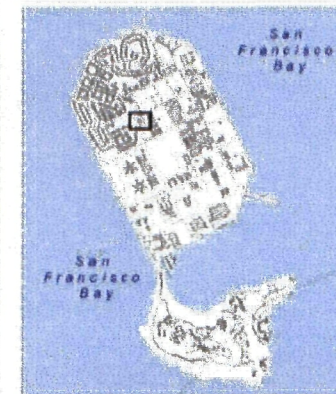
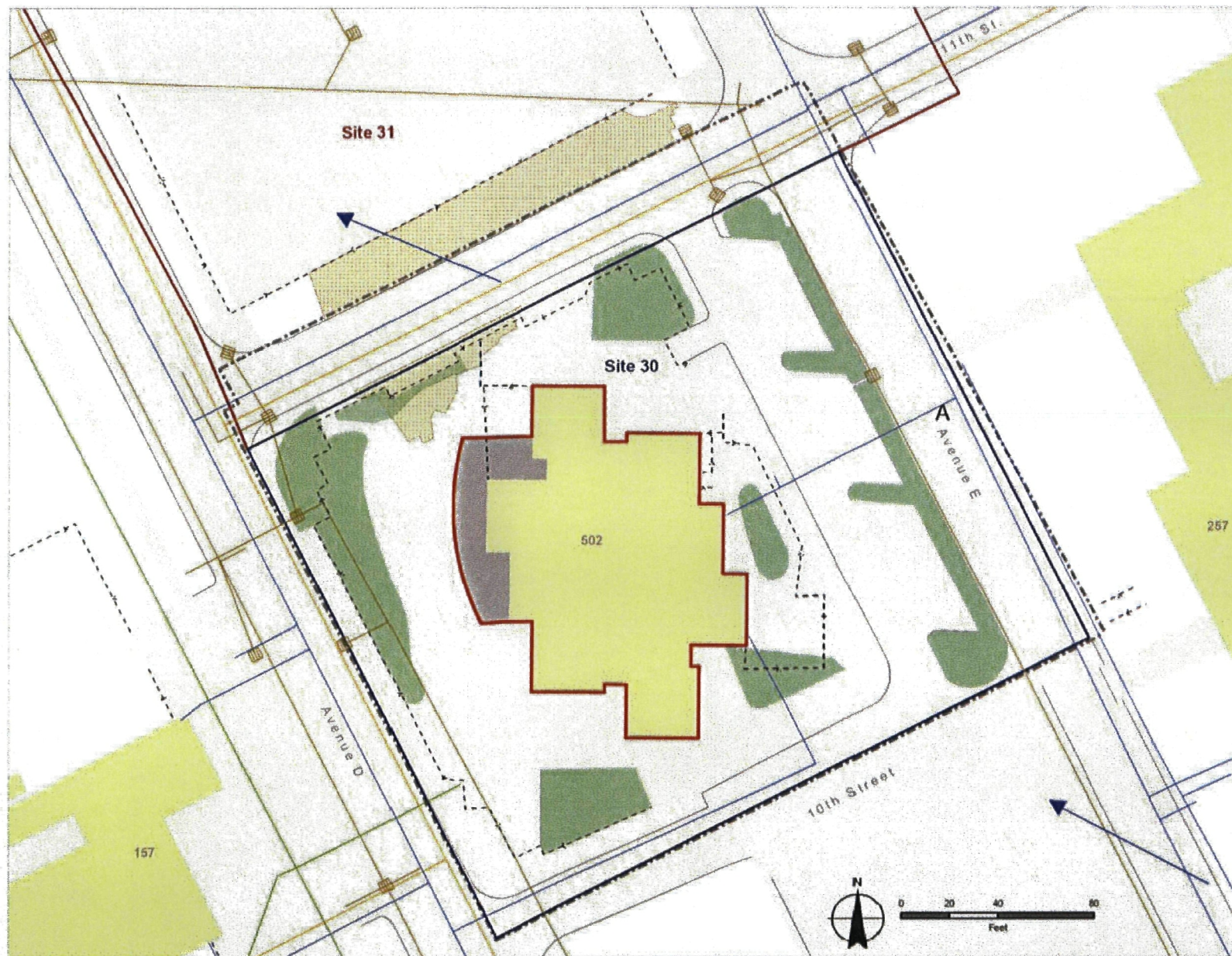


BAI Barajas & Associates, Inc.

Naval Station Treasure Island, California
Department of the Navy, BRAC PMO West, San Diego, California

FIGURE 1
SITE LOCATION MAP

Record of Decision
Site 30, Daycare Center



- WATER PIPELINE
- GAS PIPELINE
- SANITARY SEWER PIPELINE
- STORM DRAIN LINE
- STORM DRAIN
- FENCE
- ROAD CURB
- GROUNDWATER FLOW DIRECTION
- A MONITORING WELL LOCATION
- ENVIRONMENTAL BASELINE SURVEY PARCEL T094 BOUNDARY
- IR SITE 30 BOUNDARY
- IR SITE 31 BOUNDARY
- AREA WHERE DEBRIS HAS BEEN REMOVED
- SITE 30 CONCRETE PAD
- VEGETATED AREAS, SITE 30
- BUILDING
- PAVED AREA
- UNPAVED AREA
- PROPOSED REMEDIAL ACTION AREA

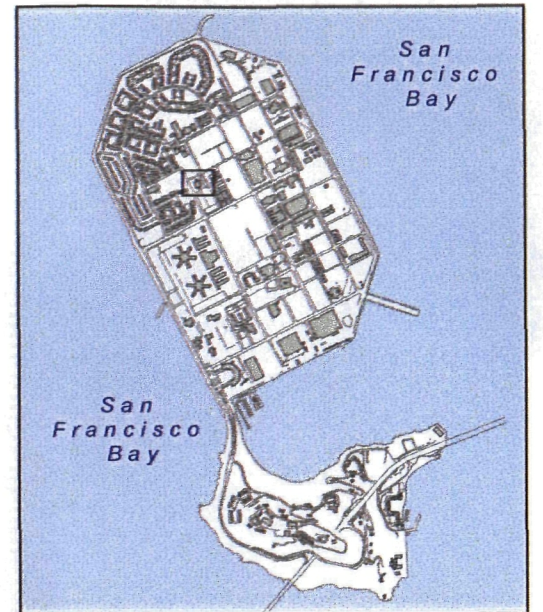
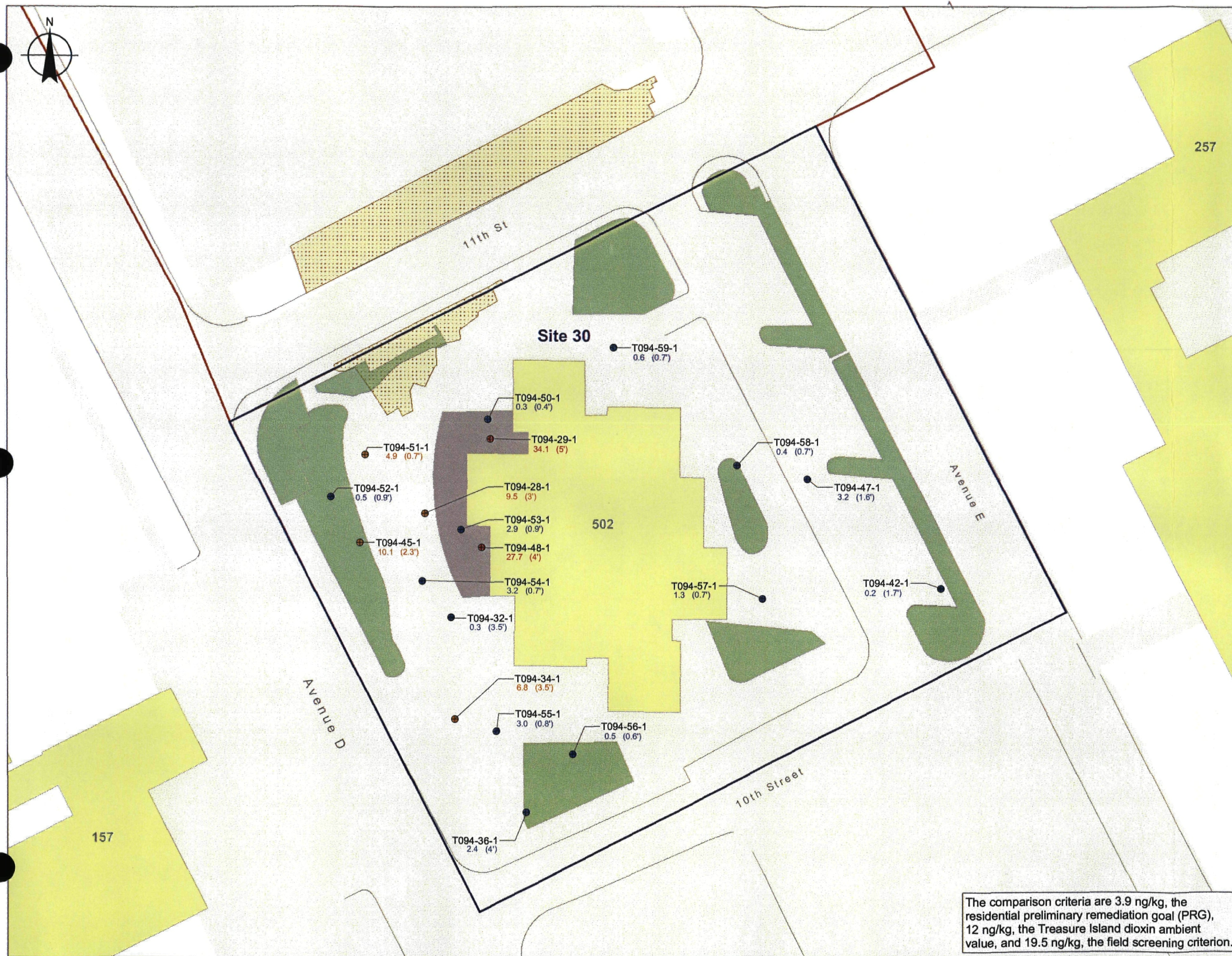
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Naval Station Treasure Island, California
Department of the Navy, BRAC PMO West, San Diego, California

FIGURE 2

SITE FEATURES MAP

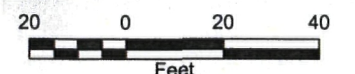
Record of Decision
Site 30, Daycare Center



- DIOXIN IN SOIL**
- DIOXIN TEQ NOT DETECTED IN SAMPLE
 - DIOXIN TEQ IS BELOW 3.9 NG/KG (RESIDENTIAL PRG)
 - DIOXIN TEQ IS BETWEEN 3.9 NG/KG AND 12 NG/KG
 - DIOXIN TEQ IS BETWEEN 12 NG/KG AND 19.5 NG/KG
 - DIOXIN TEQ EXCEEDS 19.5 NG/KG
- ROAD CURB
- IR SITE 30 BOUNDARY
- IR SITE 31 BOUNDARY
- ▨ AREA WHERE DEBRIS HAS BEEN REMOVED
- SITE 30 CONCRETE PAD
- VEGETATED AREAS, SITE 30
- BUILDING
- PAVED AREA
- UNPAVED AREA
- 34.1 (5')
└─ Sample depth in feet
└─ Concentration in parts per trillion

Notes:
ng/kg - Nanogram per kilogram
TEQ - Toxicity Equivalent Quotient

BAI Barajas & Associates, Inc.



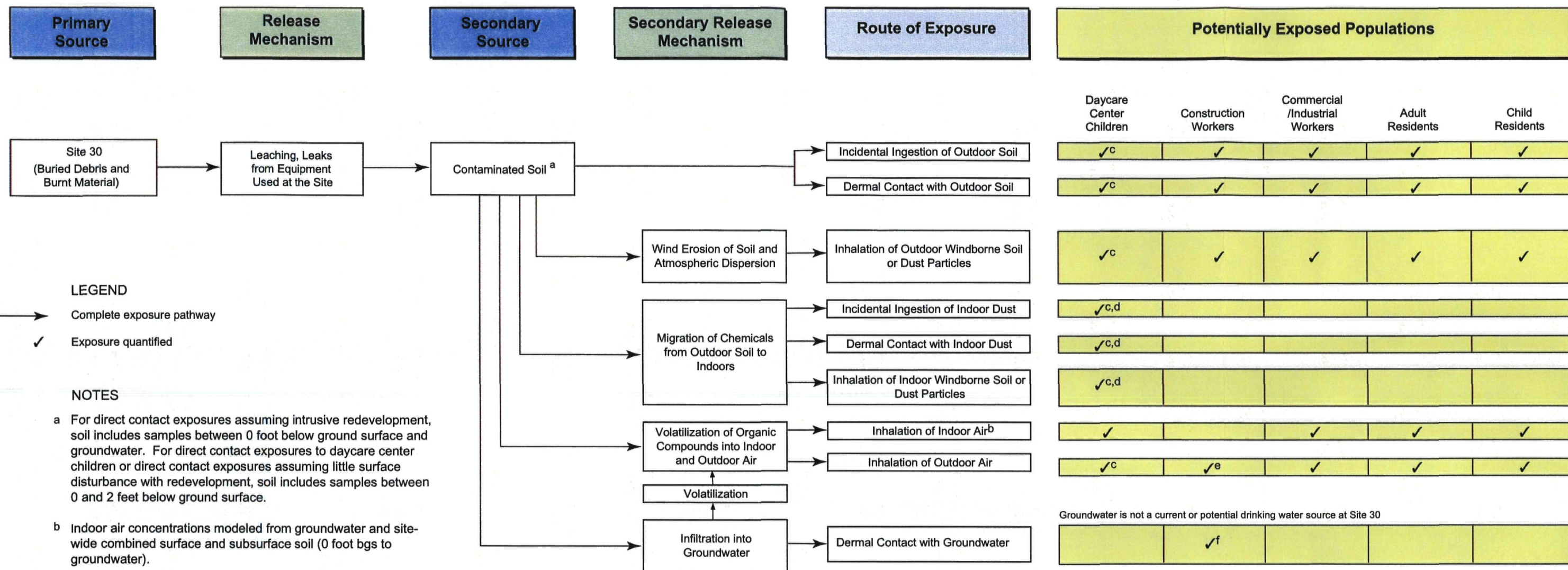
Naval Station Treasure Island, California
Department of the Navy, BRAC PMO West, San Diego, California

FIGURE 3

DIOXINS IN SOIL

Record of Decision
Site 30, Daycare Center

The comparison criteria are 3.9 ng/kg, the residential preliminary remediation goal (PRG), 12 ng/kg, the Treasure Island dioxin ambient value, and 19.5 ng/kg, the field screening criterion.



Potentially Exposed Populations				
Daycare Center Children	Construction Workers	Commercial /Industrial Workers	Adult Residents	Child Residents
✓ ^c	✓	✓	✓	✓
✓ ^c	✓	✓	✓	✓
✓ ^c	✓	✓	✓	✓
✓ ^{c,d}				
✓ ^{c,d}				
✓ ^{c,d}				
✓		✓	✓	✓
✓ ^c	✓ ^e	✓	✓	✓
Groundwater is not a current or potential drinking water source at Site 30				
	✓ ^f			

LEGEND

- Complete exposure pathway
- ✓ Exposure quantified

NOTES

- a For direct contact exposures assuming intrusive redevelopment, soil includes samples between 0 foot below ground surface and groundwater. For direct contact exposures to daycare center children or direct contact exposures assuming little surface disturbance with redevelopment, soil includes samples between 0 and 2 feet below ground surface.
- b Indoor air concentrations modeled from groundwater and site-wide combined surface and subsurface soil (0 foot bgs to groundwater).
- c Direct contact exposure to daycare center children is only considered complete from unpaved areas. In an additional evaluation, direct contact exposure to daycare center children is also considered complete from the area protected by the Site 30 concrete pad. Daycare center staff are not considered separately as a potentially exposed population as exposures to daycare center children are protective of exposures to daycare staff (see Section I.8.5).
- d Indoor soil exposures at the daycare center are quantified following OEHHA school site exposure guidance (OEHHA 2004).
- e For construction workers, inhalation of volatiles in outdoor air from groundwater was evaluated using methods recommended by the VDEQ (2004) that take account for reduced air mixing and dispersion of contaminants while working in a construction/utility trench. Inhalation of volatiles in outdoor air from soil was evaluated using the chemical-specific volatilization factors derived by EPA Region IX in its memorandum on derivation of PRGs (2004e).
- f Considering the shallow water table at Site 30, dermal contact with groundwater for construction workers involved in excavation activities is considered complete.

EPA U.S. Environmental Protection Agency
 OEHHA Office of Environmental Health Hazard Assessment
 PRG Preliminary Remediation Goal
 VDEQ Virginia Department of Environmental Quality

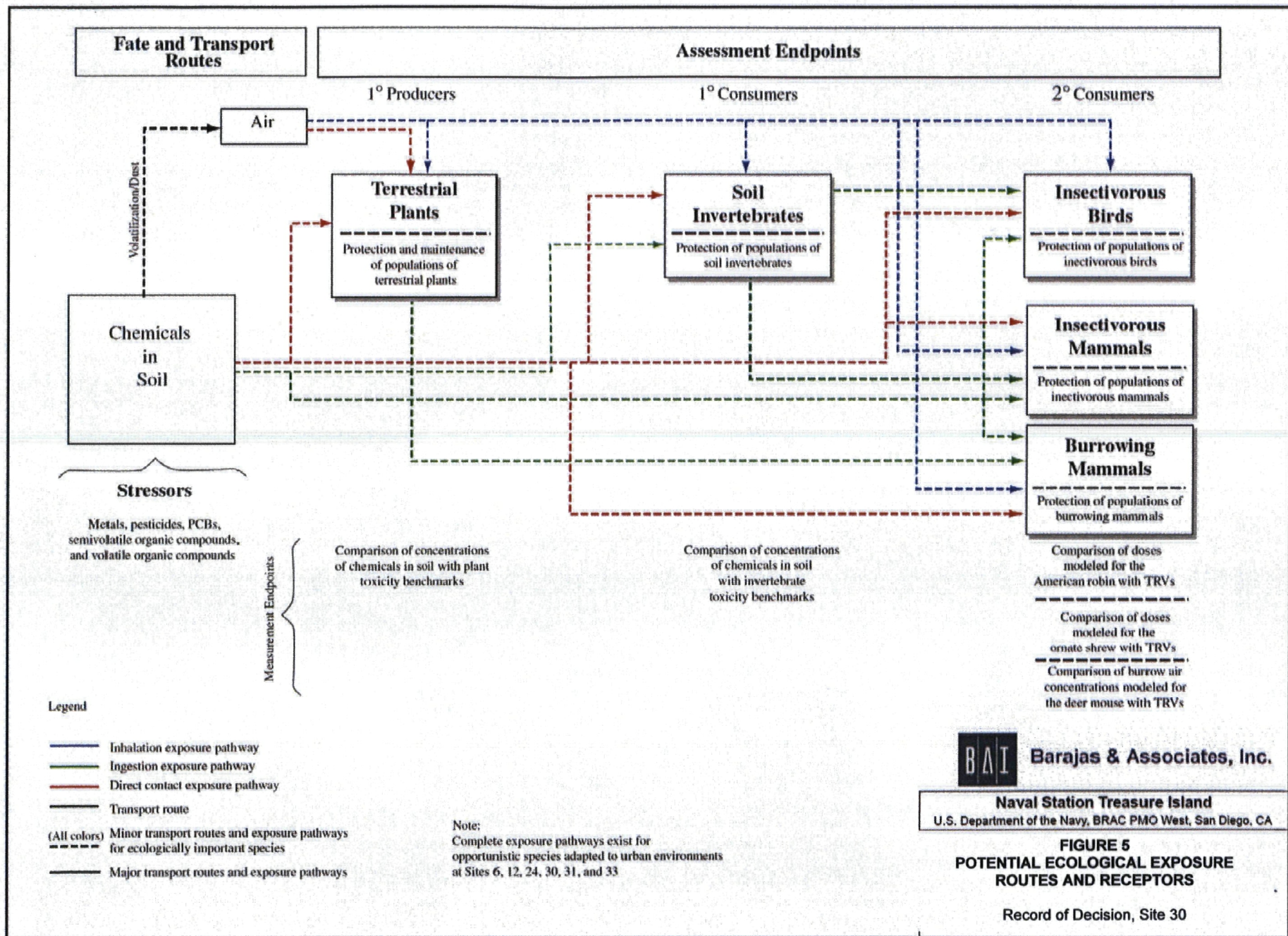
References

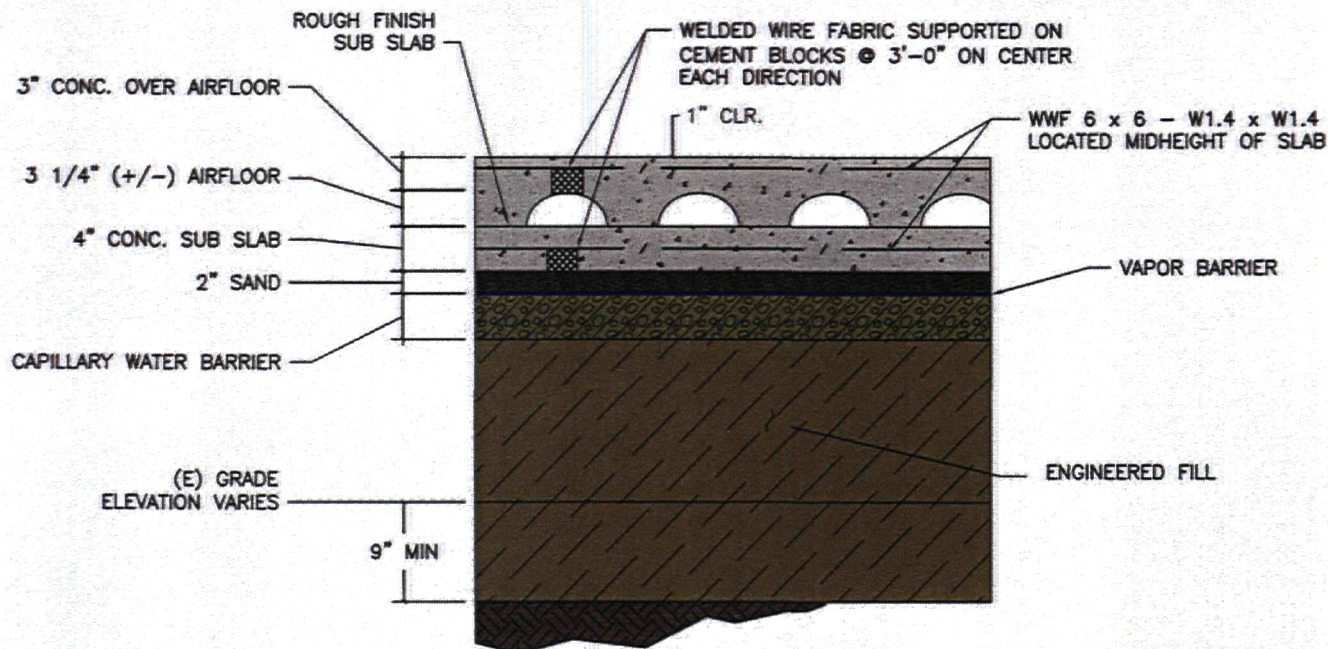
Office of Environmental Health Hazard Assessment (OEHHA). 2004. "Guidance for School Site Risk Assessment Pursuant to Health and Safety Code Section 901(f): Guidance for Assessing Exposures and Health Risks at Existing and Proposed School Sites, Final Report." February.

U.S. Environmental Protection Agency (EPA.) 2004e. "EPA Region IX Preliminary Remediation Goals (PRG) 2004." December. On-Line Address: <http://www.epa.gov/region09/waste/sfund/prg/index.htm>

Virginia Department of Environmental Quality (VDEQ). 2004. "Voluntary Remediation Program Risk Assessment Guidance." January 28. On-Line Address:







TYPICAL AIRFLOOR SLAB-ON-GRADE SECTION
SCALE 3/4"=1'-0"

NOTES:

CONTROL JOINTS AT 15'-0" ON CENTER (MAX).

SUBSLAB JOINTS AT 30'-0" ON CENTER (MAX).

AIRFLOOR NOT USED EVERYWHERE.

ENGINEERED FILL VARIES IN THICKNESS WITH A MINIMUM OF 9".



Barajas & Associates, Inc.

Naval Station Treasure Island, California
Department of the Navy, BRAC PMO West, San Diego, California

FIGURE 6
BUILDING SLAB DETAIL
Record of Decision
Site 30, Daycare Center

Source: Navy. 1982. Sheet S3, Concrete Sections, for NAVSTA TI P-218 Child Care Center.
NAVFAC Drawing Number 6172602. October 1982.

TABLES

Tables

TABLE 1: HUMAN HEALTH RISK ASSESSMENT SUMMARY

Record of Decision, IR Site 30, Daycare Center, NAVSTA TI, San Francisco, CA

Receptor	RME Cancer Risk Estimates		RME Noncancer HI Estimates	
	Method 1	Method 2	Method 1	Method 2
Current Land Use				
Current Site Conditions				
Daycare Center Child – Exposure to Soil (0-2 feet bgs, Unpaved Areas within Fence) ¹ and Vapors in Indoor Air ²	1E-09	7E-07	0.02	0.05
Altered Site Conditions				
Daycare Center Child – Exposure to Soil (0-2 feet bgs, Unpaved and Concrete Pad-Covered Areas within Fence) ¹ and Vapors in Indoor Air ²	1E-09	1E-06	0.02	0.3
Alternative Land Use				
Construction Worker – Exposure to Soil (0 foot bgs – groundwater, Site-wide) ¹ , Groundwater, and Vapors in Trench Air ³	5E-07	1E-06	0.3	0.4
Resident – Exposure to Soil (0-2 feet bgs, Site-wide) ¹ and Vapors in Indoor Air ²	5E-06	2E-05	0.8	0.9
Resident – Exposure to Soil (0 foot bgs – groundwater, Site-wide) ¹ and Vapors in Indoor Air ²	1E-05	2E-05	1	1
Commercial/Industrial Worker – Exposure to Soil (0-2 feet bgs, Site-wide) ¹ and Vapors in Indoor Air ²	2E-06	4E-06	0.07	0.08
Commercial/Industrial Worker – Exposure to Soil (0 foot bgs – groundwater, Site-wide) ¹ and Vapors in Indoor Air ²	3E-06	5E-06	0.09	0.1

Notes:

- 1 Exposure to soil via incidental ingestion, dermal contact, and inhalation of particulates or vapors in outdoor air
- 2 Indoor air concentrations modeled from groundwater and site-wide combined surface and subsurface soil (0 foot bgs to groundwater)
- 3 In-trench air concentrations modeled from groundwater
- bgs Below ground surface
- HI Hazard index
- RME Reasonable maximum exposure

TABLE 2: SUMMARY OF COMPARATIVE ANALYSIS OF ALTERNATIVES

Record of Decision, IR Site 30, Daycare Center, NAVSTA TI, San Francisco, CA

Effectiveness Criteria		Alternative 1:	Alternative 2:	Alternative 3:
		No Action	Engineering Controls Combined with ICs	Building Demolition, Excavation, and Off-Site Disposal at a Permitted Landfill
Threshold Criteria^a				
1.	Overall Protection of Human Health and the Environment	Threshold not achieved: No protection to human health and the environment would be provided under unrestricted reuse.	Threshold achieved: Protection to human health and the environment would be provided.	Threshold achieved: Protection to human health and the environment would be provided.
2.	Compliance with ARARs	Not applicable.	Threshold achieved: Meets ARARs.	Threshold achieved: Meets ARARs.
Primary Balancing Criteria^b				
3.	Long-Term Effectiveness and Permanence	Not effective and permanent because it does not address risks to alternative land use scenario receptors.	Effective in the long-term by preventing exposure to soil beneath Building 502.	Effective in the long-term by removing the contamination beneath Building 502 from Site 30 to a permitted landfill.
4.	Reduction in Toxicity, Mobility, or Volume through Treatment	Would not reduce toxicity, mobility, or volume through treatment.	Would not reduce the toxicity, mobility, or volume through treatment, but would reduce or eliminate the risk exposure pathways.	Would not reduce the toxicity, mobility, or volume through treatment, but would reduce the volume of contamination on site by removing it to a permitted landfill.
5.	Short-Term Effectiveness	No short-term risk because no active remediation activities are proposed.	No short-term risk because no active remediation activities are proposed.	Imposes moderate short-term risks during the building demolition and excavation.
6.	Technical Implementability	Readily implementable.	Readily implementable.	Readily implementable.
7.	Cost	\$0	\$782,000	\$2,086,000

Notes:

^a The first two criteria are threshold criteria. The selected remedial alternative(s) must meet the threshold criteria.

^b These criteria are primary balancing criteria used to evaluate the alternative.

Criteria 8 and 9, Community and Regulatory Acceptance, are modifying criteria that evaluate issues or concerns the state or public may have regarding each of the alternatives.

ARAR Applicable or relevant and appropriate requirement

EC Engineering control

IC Institutional control

RAO Remedial action objective

TABLE 3: COST ESTIMATE SUMMARY FOR THE SELECTED ALTERNATIVE

Record of Decision, IR Site 30, Daycare Center, NAVSTA TI, San Francisco, CA

COST ESTIMATE SUMMARY ^a						
Site:	30	Description:	To be protective of the site occupants under current use, this alternative			
Location:	Treasure Island, California		Includes engineering controls to maintain building foundation slab.			
Phase:	Feasibility Study		Thirty years of ICs will begin when LUC RD is completed.			
Base Year:	2006		Capital costs occur in year 0.			
Date:	November 7, 2006					
CAPITAL COSTS: ENGINEERING CONTROLS COMBINED WITH INSTITUTIONAL CONTROLS:						
DESCRIPTION	Quantity	Unit of Measure	Material Unit Cost	Labor Unit Cost	Equipment Unit Cost	Extended Cost
Work Plans and Reports						
Senior Project Manager	30	HR	0	175		\$5,250
Program Manager	120	HR	0	191		\$22,861
Senior Staff Engineer	400	HR	0	105		\$42,000
Staff Scientist	160	HR	0	75		\$12,000
Word Processing/Clerical	100	HR	0	55		\$5,500
Draftsman/CADD	40	HR	0	108		\$4,301
Regulatory Review	20	HR	0	185		\$3,695
SUBTOTAL						\$95,607
Administrative Land Use Controls - Implementation						
Overnight Delivery, 8-ounce letter	22	EA	19	0	0	\$418
Program Manager	92	HR	0	191	0	\$17,527
Project Engineer	180	HR	0	185	0	\$33,253
Staff Engineer	225	HR	0	162	0	\$36,376
QA Officer	52	HR	0	156	0	\$8,103
Word Processing/Clerical	154	HR	0	82	0	\$12,668
Draftsman/CADD	368	HR	0	108	0	\$39,571
Computer Data Entry	150	HR	0	74	0	\$11,085
Attorney, Partner, Real Estate	30	HR	0	200	0	\$6,000
Attorney, Associate, Real Estate	5	HR	0	150	0	\$750
Paralegal, Real Estate	36	HR	0	100	0	\$3,600
Other Direct Costs	1	LS	1719	0	0	\$1,719
Surveying - 2-man crew	6	DAY	0	1643	345	\$11,929
Portable GPS Set with Mapping, 5 centimeters Accuracy	1	MO	994	0	0	\$994
Local Fees	2	LS	250	0	0	\$500
SUBTOTAL						\$184,492
SUBTOTAL CAPITAL COSTS IN 2006 DOLLARS						\$280,100
Contingency		15%				\$42,015
TOTAL CAPITAL COST IN 2006 DOLLARS						\$322,116
OPERATIONS AND MAINTENANCE COSTS:						
Institutional Controls						
Annual Inspections Years 1-30						
Overnight Delivery, 8-ounce letter	2	EA	19			\$37
Program Manager	2	HR		191		\$381
Project Engineer	4	HR		185		\$739
Staff Engineer	16	HR		162		\$2,587
Other Direct Costs	1	LS	1267			\$1,267
SUBTOTAL						\$5,011
Contingency	15%					\$752
Navy Oversight	25%					\$1,253
Regulatory Involvement	10	hr		185		\$1,847
SUBTOTAL (per event)						\$8,862

TABLE 3: COST ESTIMATE SUMMARY FOR THE SELECTED ALTERNATIVE

Record of Decision, IR Site 30, Daycare Center, NAVSTA TI, San Francisco, CA

PERIODIC COSTS:						
DESCRIPTION 5-Year Reviews	Quantity	Unit of Measure	Material Unit Cost	Labor Unit Cost	Equipment Unit Cost	Extended Cost
Five-Year Reviews: Year 5, 10, 15, 20, 25, and 30	6					
Program Manager	40	HR	-	191	-	\$7,620
Project Engineer	120	HR	-	185	-	\$22,169
Staff Engineer	60	HR	-	162	-	\$9,700
Draftsman/CADD	40	HR	-	108	-	\$4,301
Word Processing/Clerical	60	HR	-	81	-	\$4,889
SUBTOTAL						\$48,680
Contingency	15%					\$7,302
Navy Oversight						\$12,170
Regulatory Involvement						\$9,236
SUBTOTAL						\$77,388
PRESENT VALUE ANALYSES:						
Cost Type	Year	Total Cost	Total Cost per Year	Discount Factor^{b,c}	Present Value	
Capital Cost	0	\$322,115	\$322,115	1.0000	\$322,115	
Annual O&M	1-30	\$265,872	\$8,862	19.6004	\$173,707	
Periodic Cost (5-Year Reviews)	5, 10, 15, 20, 25, 30	\$464,325	\$77,388	3.6918	\$285,702	
SUBTOTALs		\$1,052,312			\$781,523	
TOTAL PRESENT VALUE OF ALTERNATIVE					\$781,523	

Notes:

- a Cost obtained from RACER™ 2006 (Remedial Action Cost Engineering and Requirements™).
- b Discount factor = $1/(1+i)^t$ where $i = 0.030$ for a 30+ year technology and $t = \text{year}$ (i.e., the present value of the dollar paid in year t at 3.0%)
- c Multiyear discount factor = $[(1+i)^n - 1]/i(1+i)^n$ where $i = 0.030$ for a 30+ year technology and $n = \text{total number of years}$

CADD Computer-Aided Design and Drafting
 EA Each
 GPS Global positioning system
 HR Hour
 IC Institutional control
 LS Lump sum
 LUC Land use control
 MO Month
 O&M Operation and maintenance
 QA/QC Quality assurance/quality control
 RD Remedial design

APPENDIX A

Statement of Reasons

Appendix A

STATEMENT OF REASONS
NAVAL STATION TREASURE ISLAND
SITE 30 DAYCARE CENTER
RECORD OF DECISION/REMEDIAL ACTION PLAN

Pursuant to California Health and Safety Code (HSC) Section 25356.1, the U.S. Department of the Navy has prepared this statement of reasons. This statement of reasons is part of the attached decision document for the Site 30 Daycare Center at Naval Station Treasure Island (NAVSTA TI).

The Record of Decision/Remedial Action Plan (ROD/RAP) summarizes the environmental investigations and the potential risks to human health and the environment posed by Site 30. Because of the potential exposure to soil contamination, the ROD/RAP selects a combination of engineering and institutional controls as the final remedy for the site.

The attached ROD/RAP complies with the law as specified in California HSC Section 25356.1. Section 25356.1(e) requires that RAPs include a statement of reasons setting forth the basis for the removal and remedial actions selected. The statement of reasons "shall also include an evaluation of the consistency of the removal and remedial actions proposed by the plan with the federal regulations and factors specific in subdivision (d)." The remedial action is consistent with the Comprehensive Environmental Response, Compensation and Liability Act and its implementing regulations, the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). Subdivision (d) of HSC Section 25356.1 specifies six factors against which remedial alternatives in the ROD/RAP must be evaluated. The six factors are summarized as follows.

1. Health and Safety Risks - Section 25356.1(d)(1)

The human health risk assessment (HHRA) indicates that there is no excess cancer risk to current receptors (day care center child/worker and construction worker) above the no-action limit (1×10^{-6}). The risk to hypothetical future commercial and industrial workers is within the risk management range, with a maximum risk of 3×10^{-6} assuming exposure to surface soils (SulTech 2006b). The risk associated with residential alternative land use was within the risk management range, with a maximum risk of 1×10^{-5} and an HI of 1 to subsurface soil. Dioxin was the only contaminant of concern (COC) identified by the HHRA for the residential and commercial/industrial receptors.

2. Beneficial Uses of Site Resources - Section 25356.1(d)(2)

Site 30 was leased to the City and County of San Francisco in 1997 and has been used by Kidango as a daycare center since March 17, 2003. No known mineral, cultural, or archeological resources exist at this site.

Currently, shallow groundwater at Site 30 (approximately 5 to 7 feet below ground surface) is not used as a source of drinking water, agricultural, or industrial supply. In a letter from the Water Board to the Navy, the Water Board provided its concurrence that groundwater at

NAVSTA TI meets the exemption criteria in State Water Resources Control Board Sources of Drinking Water Resolution 88-63, but retains its designation for potential agricultural, process, and industrial supply (Water Board 2001).

3. Effect of the Remedial Actions on Groundwater Resources - Section 25356.1(d)(3)

Groundwater has not been impacted by releases of chemicals at Site 30. The shallow groundwater is not likely to be used due to poor quality irrespective of the proposed institutional controls. These actions will not impact shallow groundwater resources at the site.

4. Site-specific Characteristics - Section 25356.1(d)(4)

Site 30 consists of a trash disposal area that was identified on a 1989 utility as-built drawing. A note on the as-built drawing for the water line project identified an “old trash dump” within the western portion of the water line excavation along 11th Street between Avenues D and E (Shaw Environmental, Inc. [Shaw] 2003). Subsequently, a multi-phase investigation and removal action was conducted beginning in May 2002 to determine the nature and extent of the buried debris (Shaw 2003; 2004).

Dioxins were detected at concentrations exceeding the ambient toxic equivalence quotient (TEQ) concentration. Although the source for dioxin in the soil has not been identified, it is likely a result of burnt debris in the disposal area. A time-critical removal action was conducted in 2003/2004 to remove debris and soil from the disposal area.

Based on investigation results, dioxins were not detected in groundwater samples collected at Site 30. Dioxin has not been detected at concentrations exceeding the TI ambient TEQ levels in soil below groundwater. However, if dioxins in soil are in contact with groundwater, they are not considered volatile, tend to adsorb strongly to soil particles, and are essentially insoluble in water. In general, dioxins are retained strongly by soil and are not expected to leach to groundwater or migrate off-site to the Bay.

5. Cost Effectiveness of Alternative Remedial Action Measures - Section 25356.1(d)(5)

Based on the comparative analysis of alternatives in the ROD/RAP, the selected remedy is the most cost-effective means of protecting human health and the environment. The active remedial alternative included removal of the daycare center building and affected soil, with costs approximately three times higher than the selected alternative.

6. Potential Environmental Impacts of Remedial Actions - Section 25356.1(d)(6)

The selected remedial actions will not have significant potential environmental impacts. The remedy for Site 30 involves engineering and institutional controls, which, compared to soil removal and disposal should have no short-term impact.

A state RAP must also include a “nonbinding preliminary allocation of responsibility among all identifiable potentially responsible parties at a particular site, including those parties which may have been released, or may otherwise be immune, from liability” (HSC Section 25356.1(e)). The Navy is responsible for the selected alternatives at Site 30.

APPENDIX B

Administrative Record Index

TREASURE ISLAND NAVSTA

DRAFT ENVIRONMENTAL RESTORATION RECORD INDEX - UPDATE (SORTED BY RECORD DATE/RECORD NUMBER)

DOCUMENTS RELATED TO SITE 30

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.	Record Type	Record Date	Author	Location	FRC Accession No.
Contr./Guid. No.	CTO No.	Recipient Affil.					SWDIV Box No(s)	FRC Warehouse
Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites	CD No.	FRC Box No(s)	
N60028 / 000118 TC.0308.10766 & SWDIV SER 06CA.JS/1041 MM N62474-94-D-7609 12	01-11-2001 12-20-2000 00308	TETRA TECH EM INC. VARIOUS AGENCIES	DRAFT - REMEDIAL PROJECT MANAGER AND BRAC CLEANUP TEAM (RPM/BCT) MEETING MINUTES - 11 JULY 2000 (WITH ENCLOSURE)	ADMIN RECORD INFO REPOSITORY	012 029 030	FRC - PERRIS	181-03-0181 41106473	BOX 0003
N60028 / 001151 DS.A016.10457 & SWDIV SER 06CA.JS/0633 MM N68711-00-D-0005 50	05-07-2003 03-04-2003 DO 016	TETRA TECH EM INC. VARIOUS AGENCIES	04 MARCH 2003 DRAFT REMEDIAL PROJECT MANAGERS AND BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) MEETING MINUTES - INCLUDES AGENDA, SIGN-IN SHEET, VARIOUS HANDOUTS, AND SWDIV TRANSMITTAL BY J. SULLIVAN	ADMIN RECORD INFO REPOSITORY	012 024 030	FRC - PERRIS	181-03-0186 41031802	BOX 0004
N60028 / 001209 DS.B006.13044 & SWDIV SER. 06CA.JS/0523 MINUTES N68711-03-D-5104 12	06-09-2004 04-06-2004 00006	SULTECH NAVFAC - SOUTHWEST DIVISION	DRAFT MINUTES FOR REMEDIAL PROJECT MANAGER BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM MONTHLY MEETING (INCLUDES SWDIV TRANSMITTAL LETTER)	ADMIN RECORD INFO REPOSITORY	BLDG 00502 SITE 00008 SITE 00013 SITE 00027 SITE 00030 SITE 00031	NAVFAC SOUTHWEST - BLDG. 1		
N60028 / 001196 DS.B021.13916 CORRESPONDENC N68711-03-D-5104 12	05-20-2004 04-16-2004 00021	SULTECH HOCH, K. NAVFAC - SOUTHWEST DIVISION	DRAFT ADDENDUM TO THE SAMPLING AND ANALYSIS PLAN (SAP) FACILITY WIDE GROUNDWATER MONITORING PROGRAM INSTALLATION RESTORATION (IR)	ADMIN RECORD INFO REPOSITORY	SITE 00030 SITE 00031	NAVFAC SOUTHWEST - BLDG. 1		

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.						
Record Type	Record Date	Author							
Contr./Guid. No.	CTO No.	Recipient Affil.							
Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s) —		
N60028 / 001207 DS.B021.13918 CORRESPONDENC N68711-03-D-5104 40	06-07-2004 05-21-2004 00021	SULTECH SWANSON, G. NAVFAC - SOUTHWEST DIVISION	FINAL ADDENDUM TO THE SAMPLING AND ANALYSIS PLAN (SAP) FACILITY WIDE GROUNDWATER MONITORING PROGRAM INSTALLATION RESTORATION (CD COPY ENCLOSED)	ADMIN RECORD INFO REPOSITORY	SITE 00030 SITE 00031	NAVFAC SOUTHWEST - BLDG. 1			
N60028 / 001234 DS.B006.13064 MINUTES N68711-03-D-5104 17	12-06-2004 10-05-2004 00006	SULTECH NAVFAC - SOUTHWEST DIVISION	02 SEPTEMBER 2004 DRAFT REMEDIAL PROJECT MANAGERS (RPM) AND BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) MEETING MINUTES	ADMIN RECORD INFO REPOSITORY	BLDG 00233 BLDG 00343 BLDG 00344 SITE 00002 SITE 00010 SITE 00012 SITE 00014 SITE 00022 SITE 00024 SITE 00025 SITE 00027 SITE 00030 SITE 00031 SITE 00227	NAVFAC SOUTHWEST - BLDG. 1			
N60028 / 001289 BRAC SER BPMOW.LNL/0735 & DS.B021.13920 REPORT N68711-03-D-5104 800	07-18-2005 05-01-2005 00021	SULTECH K. HOCH NAVFAC - SOUTHWEST DIVISION	DRAFT REMEDIAL INVESTIGATION (RI) REPORT FOR THE DAYCARE CENTER, VOLUMES I AND II OF II (CD COPY ENCLOSED}	ADMIN RECORD INFO REPOSITORY	030	NAVFAC SOUTHWEST - BLDG. 1			
N60028 / 001310 NONE CORRESPONDENC NONE 3	12-20-2005 07-11-2005 NONE	GEOMATRIX G. FOOTE NAVFAC - SOUTHWEST DIVISION L. LANDERS	GEPMATRIX CONSULTANTS, INC. COMMENTS ON BEHALF OF THE TREASURE ISLAND DEVELOPMENT AUTHORITY (TIDA) ON DRAFT REMEDIAL INVESTIGATION REPORT, DAY CARE CENTER (INCLUDES EXPONENT'S COMMENTS ON THE HUMAN HEALTH RISK ASSESSMENT (HHRA))	ADMIN RECORD INFO REPOSITORY	030	NAVFAC SOUTHWEST - BLDG. 1			

UIC No. / Rec. No.

Doc. Control No.	Prc. Date	Author Affil.						
Record Type	Record Date	Author					Location	FRC Accession No.
Contr./Guid. No.	CTO No.	Recipient Affil.					SWDIV Box No(s)	FRC Warehouse
Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites		CD No.	FRC Box No(s)
N60028 / 001311 NONE CORRESPONDENC NONE 1	12-20-2005 07-12-2005 NONE	NAVFAC - SOUTHWEST FRIEDMAN, A. BRAC L. LANDERS	CRWQCB ELECTRONIC MAIL COMMENTS ON THE DRAFT REMWDIAL INVESTIGATION REPORT, DAYCARE CENTER	ADMIN RECORD INFO REPOSITORY	030		NAVFAC SOUTHWEST - BLDG. 1	
N60028 / 001304 NONE CORRESPONDENC NONE 15	12-15-2005 07-25-2005 NONE	DTSC - BERKELEY D. RIST NAVFAC - SOUTHWEST DIVISION L. LANDERS	COMMENTS ON THE DRAFT REMEDIAL INVESTIGATION REPORT, DAY CARE CENTER (INCLUDES COMMENTS BY HERD DATED 7/18/05)	ADMIN RECORD INFO REPOSITORY	030		NAVFAC SOUTHWEST - BLDG. 1	
N60028 / 001312 NONE CORRESPONDENC NONE 2	12-20-2005 07-29-2005 NONE	USEPA P. COLLINS BRAC L. LANDERS	USEPA - ELECTRONIC MAIL COMMENTS ON THE DRAFT REMEDIAL INVESTIGATION REPORT, DAY CARE CENTER	ADMIN RECORD INFO REPOSITORY	030		NAVFAC SOUTHWEST - BLDG. 1	
N60028 / 001314 NONE CORRESPONDENC NONE 28	12-28-2005 10-11-2005 NONE	NAVFAC - SOUTHWEST VARIOUS AGENCIES	RESPONSES TO REGULATORY AGENCY COMMENTS ON THE DRAFT REMEDIAL INVESTIGATION REPORT FOR THE DAYCARE CENTER	ADMIN RECORD INFO REPOSITORY	030		NAVFAC SOUTHWEST - BLDG. 1	
N60028 / 001370 NONE MM NONE 15	08-02-2006 01-10-2006 NONE	TETRA TECH EM INC. BRAC PMO WEST	10 JANUARY 2006 FINAL DAYCARE CENTER FEASIBILITY STUDY TECHNICAL SCOPING MEETING MINUTES (INCLUDES VARIOUS HANDOUT MATERIALS)	ADMIN RECORD INFO REPOSITORY	030		NAVFAC SOUTHWEST - BLDG. 1	

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.						
Record Type	Record Date	Author							
Contr./Guid. No.	CTO No.	Recipient Affil.							
Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)		
N60028 / 001319 NONE CORRESPONDENC NONE 5	02-21-2006 01-24-2006 NONE	DTSC - BERKELEY D. RIST BRAC L. LANDERS	IDENTIFICATION OF STATE APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS) FOR THE DRAFT FEASIBILITY STUDY (FS)	ADMIN RECORD INFO REPOSITORY	030 PARCEL T094	NAVFAC SOUTHWEST - BLDG. 1			
N60028 / 001330 DS.BO21.13922 REPORT N68711-03-D-5104 300	03-14-2006 02-01-2006 00021	SULTECH BRAC	FINAL REMEDIAL INVESTIGATION REPORT, DAYCARE CENTER, VOLUMES I AND II OF II (SEE AR # 1331 - BRAC TRANSMITTAL LETTER BY J. SULLIVAN)	ADMIN RECORD INFO REPOSITORY	030	NAVFAC SOUTHWEST - BLDG. 1			
N60028 / 001323 BRAC SER BPMOW.LNL/0113 CORRESPONDENC NONE 3	02-28-2006 02-07-2006 NONE	BRAC PMO WEST SULLIVAN, J. DEPT OF FISH & GAME HUANG, C.	REQUEST FOR IDENTIFICATION OF STATE APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS) FOR THE FEASIBILITY STUDY (FS) FOR THE DAYCARE CENTER	ADMIN RECORD INFO REPOSITORY	030	NAVFAC SOUTHWEST - BLDG. 1			
N60028 / 001324 BRAC SER BPMOW.LNL/0116 CORRESPONDENC NONE 3	02-28-2006 02-07-2006 NONE	BRAC PMO WEST SULLIVAN, J. CALEPA YEKTA, G.	REQUEST FOR IDENTIFICATION OF STATE APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS) FOR THE FEASIBILITY STUDY AT THE DAYCARE CENTER	ADMIN RECORD INFO REPOSITORY	030	NAVFAC SOUTHWEST - BLDG. 1			
N60028 / 001325 BRAC SER BPMOW.LNL/0112 CORRESPONDENC NONE 3	02-28-2006 02-07-2006 NONE	BRAC PMO WEST SULLIVAN, J. AIR QUALITY MGMT - BAY AREA BROADBENT, J.	REQUEST FOR IDENTIFICATION OF STATE APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS) FOR THE FEASIBILITY STUDY (FS) AT THE DAYCARE CENTER	ADMIN RECORD INFO REPOSITORY	030	NAVFAC SOUTHWEST - BLDG. 1			

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.	Record Type	Record Date	Author	Location	FRC Accession No.
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Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites		CD No.	FRC Box No(s)
N60028 / 001326 BRAC SER BPMOW.LNL/0117 CORRESPONDENC NONE 3	02-28-2006 02-07-2006 NONE	BRAC PMO WEST SULLIVAN, J. CALEPA FRIEDMAN, A.	REQUEST FOR IDENTIFICATION OF STATE APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS) FOR THE FEASIBILITY STUDY (FS) AT THE DAYCARE CENTER	ADMIN RECORD INFO REPOSITORY	030		NAVFAC SOUTHWEST - BLDG. 1	
N60028 / 001327 BRAC SER BPMOW.LNL/0115 CORRESPONDENC NONE 3	02-28-2006 02-07-2006 NONE	BRAC PMO WEST SULLIVAN, J. DTSC - BERKELEY, CA RIST, D.	REQUEST FOR IDENTIFICATION OF STATE APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS) FOR THE FEASIBILITY STUDY (FS) AT THE DAYCARE CENTER	ADMIN RECORD INFO REPOSITORY	030		NAVFAC SOUTHWEST - BLDG. 1	
N60028 / 001328 BRAC SER BPMOW.LNL/0114 CORRESPONDENC NONE 3	02-28-2006 02-07-2006 NONE	BRAC PMO WEST SULLIVAN, J. DHS - SACRAMENTO DEMENT, D.	REQUEST FOR IDENTIFICATION OF STATE APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS) FOR THE FEASIBILITY STUDY (FS) AT THE DAYCARE CENTER	ADMIN RECORD INFO REPOSITORY	030		NAVFAC SOUTHWEST - BLDG. 1	
N60028 / 001331 BRAC SER BPMOW.LNL/0139 CORRESPONDENC NONE 2	03-14-2006 02-15-2006 NONE	BRAC PMO WEST SULLIVAN, J. VARIOUS AGENCIES	TRANSMITTAL OF FINAL REMEDIAL INVESTIGATION (RI) REPORT, DAYCARE CENTER, VOLUMES I AND II OF II (SEE AR #1330 - FINAL REMEDIAL INVESTIGATION REPORT, DAYCARE CENTER, VOLUMES I AND II OF II)	ADMIN RECORD INFO REPOSITORY	030		NAVFAC SOUTHWEST - BLDG. 1	
N60028 / 001365 NONE CORRESPONDENC NONE 2	07-21-2006 03-03-2006 NONE	DHS - SACRAMENTO P. LEINWANDER DTSC - BERKELEY D. RIST	RESPONSE TO REQUEST FOR APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS)	ADMIN RECORD INFO REPOSITORY	030		NAVFAC SOUTHWEST - BLDG. 1	

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.	Record Type	Record Date	Author	Location	FRC Accession No.
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N60028 / 001366 NONE CORRESPONDENC NONE 9	07-21-2006 03-17-2006 NONE	DEPT. OF FISH AND GAME C. HUANG DTSC - BERKELEY D. RIST	RESPONSE TO REQUEST FOR APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS) (W/ ENCLOSURE)	ADMIN RECORD INFO REPOSITORY	030	NAVFAC SOUTHWEST - BLDG. 1		
N60028 / 001367 NONE CORRESPONDENC NONE 2	07-21-2006 03-17-2006 NONE	DTSC - BERKELEY D. RIST BRAC PMO WEST L. LANDERS	COMMENTS ON FINAL REMEDIAL INVESTIGATION REPORT, DAYCARE CENTER	ADMIN RECORD INFO REPOSITORY	030	NAVFAC SOUTHWEST - BLDG. 1		
N60028 / 001537 NONE CORRESPONDENC NONE 14	08-12-2008 06-09-2006 NONE	HERD - BERKELEY, CA POLISINI, J. OMF - BERKELEY, CA RIST, D.	COMMENTS ON THE COMPARISON OF HABITAT ON TREASURE ISLAND AND YERBA BUENA ISLAND (INCLUDES COMPARISON OF HABITAT ON TREASURE ISLAND AND YERBA BUENA ISLAND EMAILED 22 MAY 2006)	ADMIN RECORD	SITE 00006 SITE 00012 SITE 00021 SITE 00024 SITE 00030 SITE 00031 SITE 00032 SITE 00033	NAVFAC SOUTHWEST - BLDG. 1		
N60028 / 001373 DS.B118.20339 REPORT N68711-03-D-5104 50	08-09-2006 07-01-2006 00118	SULTECH BRAC PMO WEST	DRAFT FEASIBILITY STUDY (FS) REPORT FOR DAYCARE CENTER (SEE AR #1372 - BRAC PMO WEST TRANSMITTAL LETTER BY J. SULLIVAN)	ADMIN RECORD INFO REPOSITORY	030	NAVFAC SOUTHWEST - BLDG. 1		
N60028 / 001372 BRAC SER BPMOW.LU/0603 CORRESPONDENC NONE 2	08-09-2006 07-11-2006 NONE	BRAC PMO WEST SULLIVAN, J. VARIOUS AGENCIES	TRANSMITTAL OF DRAFT FEASIBILITY STUDY (FS) REPORT FOR DAYCARE CENTER (SEE AR #1373 - DRAFT FS REPORT)	ADMIN RECORD INFO REPOSITORY	030	NAVFAC SOUTHWEST - BLDG. 1		

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Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites	CD No.	FRC Box No(s)	
N60028 / 001383 NONE CORRESPONDENC NONE 5	09-28-2006 07-27-2006 NONE	DTSC - BERKELEY D. RIST BRAC PMO WEST L. URIZAR	REVIEW AND COMMENTS ON DRAFT FEASIBILITY STUDY (FS) REPORT, DAY CARE CENTER	ADMIN RECORD INFO REPOSITORY	030	NAVFAC SOUTHWEST - BLDG. 1		
N60028 / 001374 FILE NO. 2169.6013(AF) CORRESPONDENC NONE 3	08-22-2006 08-02-2006 NONE	CRWQCB - OAKLAND FARRES, A. BRAC PMO WEST L. URIZAR	REVIEW AND COMMENTS ON DRAFT FEASIBILITY STUDY REPORT, DAYCARE CENTER	ADMIN RECORD INFO REPOSITORY	030	NAVFAC SOUTHWEST - BLDG. 1		
N60028 / 001377 BRAC SER BPMOW.LNL/0707 CORRESPONDENC NONE 1	09-05-2006 08-14-2006 NONE	BRAC PMO WEST SULLIVAN, J. VARIOUS AGENCIES	TRANSMITTAL OF DRAFT SCREENING- LEVEL ECOLOGICAL RISK ASSESSMENT (W/OUT ENCLOSURE)	ADMIN RECORD INFO REPOSITORY	SITE 00006 SITE 00012 SITE 00021 SITE 00024 SITE 00030 SITE 00031 SITE 00032 SITE 00033	NAVFAC SOUTHWEST - BLDG. 1		
N60028 / 001378 DS.B126.20517 REPORT N68711-03-D-5104 325	09-05-2006 08-14-2006 00126	TETRA TECH EM INC. ROSE, C. BRAC PMO WEST	DRAFT SCREENING-LEVEL ECOLOGICAL RISK ASSESSMENT (CD COPY ENCLOSED)	ADMIN RECORD INFO REPOSITORY	SITE 00006 SITE 00012 SITE 00021 SITE 00024 SITE 00030 SITE 00031 SITE 00032 SITE 00033	NAVFAC SOUTHWEST - BLDG. 1		
N60028 / 001384 PROJECT NO. 4850.005.3 CORRESPONDENC NONE 4	09-28-2006 08-14-2006 NONE	GEOMATRIX CONSULTANTS, INC. G. FOOTE VARIOUS AGENCIES	REVIEW AND COMMENTS ON DRAFT FEASIBILITY STUDY (FS) REPORT, DAYCARE CENTER	ADMIN RECORD INFO REPOSITORY	030	NAVFAC SOUTHWEST - BLDG. 1		

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.	Record Type	Record Date	Author	Contr./Guid. No.	CTO No.	Recipient Affil.	Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
N60028 / 001385	NONE	09-28-2006	D. SMITH	CORRESPONDENCE	08-14-2006	BRAC PMO WEST			J. SULLIVAN	1			REVIEW AND COMMENTS ON DRAFT FEASIBILITY STUDY (FS) REPORT, DAYCARE CENTER	ADMIN RECORD INFO REPOSITORY SENSITIVE	030	NAVFAC SOUTHWEST - BLDG. 1	
N60028 / 001519	NONE	05-29-2008	RAB MEMBER BRENNAN, N.	CORRESPONDENCE	08-15-2006	BRAC PMO WEST			SULLIVAN, J.	2			COMMENTS ON THE DRAFT FEASIBILITY STUDY (FS) REPORT FOR DAYCARE CENTER	ADMIN RECORD INFO REPOSITORY	SITE 00030	NAVFAC SOUTHWEST - BLDG. 1	
N60028 / 001399	DS.B118.20341	12-05-2006	SULTECH	RESPONSE	09-21-2006	NAVFAC - SOUTHWEST				20			DRAFT RESPONSES TO BCT/RAB COMMENTS ON DRAFT FEASIBILITY STUDY REPORT, DAYCARE CENTER	ADMIN RECORD INFO REPOSITORY	030	NAVFAC SOUTHWEST - BLDG. 1	
N60028 / 001400	BRAC SER BPMOW.CP/0130	12-05-2006	BRAC PMO WEST SULLIVAN, J.	CORRESPONDENCE	11-16-2006	VARIOUS AGENCIES				2			TRANSMITTAL OF FINAL FEASIBILITY STUDY (FS) REPORT, DAYCARE CENTER (W/OUT ENCLOSURE) [SEE AR #1401 - FINAL FS]	ADMIN RECORD INFO REPOSITORY	030	NAVFAC SOUTHWEST - BLDG. 1	
N60028 / 001401	DS.B118.20345	12-05-2006	SULTECH D. RHOADES	REPORT	11-16-2006	BRAC PMO WEST				120			FINAL FEASIBILITY STUDY (FS) REPORT, DAYCARE CENTER (CD COPY ENCLOSED) [SEE AR #1400 - BRAC PMO WEST TRANSMITTAL LETTER BY J. SULLIVAN]	ADMIN RECORD INFO REPOSITORY	030	NAVFAC SOUTHWEST - BLDG. 1	

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N60028 / 001595		03-18-2009	TETRA TECH EM, INC.										19 DECEMBER 2006 FINAL RESTORATION ADVISORY BOARD (RAB) MEETING MINUTES, MEETING # 127 (INCLUDES VARIOUS HANDOUTS AND CD COPY)	ADMIN RECORD	BLDG 00001	NAVFAC	
TTEM-0055-FZN6-0211		12-19-2006												INFO REPOSITORY	BLDG 00061	SOUTHWEST - BLDG.	
MINUTES		CTO FZN6	RAB MEMBERS												BLDG 00083	1	
N62467-04-D-0055															BLDG 00233		
34															BLDG 00240		
															BLDG 01311		
															BLDG 01313		
															BLDG 01325		
															SITE 00006		
															SITE 00008		
															SITE 00009		
															SITE 00010		
															SITE 00012		
															SITE 00021		
															SITE 00024		
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Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites	CD No.	FRC Box No(s)	
N60028 / 001502 TTEM.0055.FZN6.01 07 MINUTES N62467-04-D-0055 60	05-20-2008 01-09-2007 FZN6	TETRA TECH EM INC. BRAC PMO WEST	09 JANUARY 2007 FINAL MEETING MINUTES, REMEDIAL PROJECT MANAGERS (RPM) AND BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) (INCLUDES AGENDA, SIGN-IN SHEET, VARIOUS HANDOUTS, AND CD COPY)	ADMIN RECORD INFO REPOSITORY	BLDG 000233 SITE 00006 SITE 00008 SITE 00009 SITE 00010 SITE 00011 SITE 00012 SITE 00021 SITE 00024 SITE 00025 SITE 00027 SITE 00028 SITE 00029 SITE 00030 SITE 00031 SITE 00032	NAVFAC SOUTHWEST - BLDG. 1		
N60028 / 001503 TTEM.0055.FZN6.00 16 MINUTES N62467-04-D-0055 45	05-20-2008 02-06-2007 FZN6	TETRA TECH EM INC. BRAC PMO WEST	06 FEBRUARY 2007 FINAL MEETING MINUTES, REMEDIAL PROJECT MANAGERS (RPM) AND BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) (INCLUDES AGENDA, SIGN-IN SHEET, AND VARIOUS HANDOUTS) (CD COPY ENCLOSED) [SEE AR # 1501 - BRAC PMO WEST TRANSMITTAL LETTER]	ADMIN RECORD INFO REPOSITORY	BLDG 000233 SITE 00006 SITE 00009 SITE 00010 SITE 00012 SITE 00021 SITE 00024 SITE 00025 SITE 00027 SITE 00028 SITE 00030 SITE 00032 SITE 00033	NAVFAC SOUTHWEST - BLDG. 1		

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N60028 / 001596 TTEM-0055-FZN6-0003 MINUTES N62467-04-D-0055 40		03-18-2009 02-20-2007 CTO FZN6	TETRA TECH EM, INC. RAB MEMBERS						20 FEBRUARY 2007 FINAL RESTORATION ADVISORY BOARD (RAB) MEETING MINUTES, MEETING # 128 (INCLUDES VARIOUS HANDOUTS AND CD COPY)	ADMIN RECORD INFO REPOSITORY	SITE 00008 SITE 00009 SITE 00010 SITE 00012 SITE 00021 SITE 00024 SITE 00027 SITE 00028 SITE 00029 SITE 00030 SITE 00031	NAVFAC SOUTHWEST - BLDG. 1					
N60028 / 001504 TTEM.0055.FZN6.0009 MINUTES N62467-04-D-0055 50		05-20-2008 03-06-2007 FZN6	TETRA TECH EM INC. BRAC PMO WEST						06 MARCH 2007 FINAL MEETING MINUTES, REMEDIAL PROJECT MANAGERS (RPM) AND BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) (INCLUDES AGENDA, SIGN-IN SHEET, AND VARIOUS HANDOUTS) (CD COPY ENCLOSED) [SEE AR # 1501 - BRAC PMO WEST TRANSMITTAL LETTER]	ADMIN RECORD INFO REPOSITORY	BLDG 000233 SITE 00006 SITE 00009 SITE 00010 SITE 00012 SITE 00021 SITE 00024 SITE 00025 SITE 00027 SITE 00028 SITE 00030 SITE 00030 SITE 00031 SITE 00032 SITE 00033	NAVFAC SOUTHWEST - BLDG. 1					
N60028 / 001428 BRAC SER BPMOW.CP/0422 CORRESPONDENC NONE 3		03-27-2007 03-19-2007 NONE	BRAC PMO WEST SULLIVAN, J. DTSC - BERKELEY, CA WONG, H.						TRANSMITTAL OF DRAFT PROPOSED PLAN FOR REMEDIAL ACTION, DAYCARE CENTER (W/OUT ENCLOSURE) [SEE AR #1429 - DRAFT PROPOSED PLAN]	ADMIN RECORD INFO REPOSITORY	030	NAVFAC SOUTHWEST - BLDG. 1					

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Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s) —			
N60028 / 001429 BAI.DS.025.00105 REPORT N68711-03-D-5106 12	03-27-2007 03-19-2007 00025	BAI VEDAGIRI, E. BRAC PMO WEST	DRAFT PROPOSED PLAN FOR REMEDIAL ACTION, DAYCARE CENTER (SEE AR #1428 - BRAC PMO WEST TRANSMITTAL LETTER)	ADMIN RECORD INFO REPOSITORY	SITE 00030	NAVFAC SOUTHWEST - BLDG. 1				
N60028 / 001434 BRAC SER BPMOW.CP/0434 CORRESPONDENC NONE 2	04-04-2007 03-23-2007 NONE	BRAC PMO WEST SULLIVAN, J. DTSC - BERKELEY WONG, H.	TRANSMITTAL OF FINAL SCREENING-LEVEL ECOLOGICAL RISK ASSESSMENT (SLERA) [W/OUT ENCLOSURE]	ADMIN RECORD INFO REPOSITORY	SITE 00006 SITE 00012 SITE 00021 SITE 00024 SITE 00030 SITE 00031 SITE 00032 SITE 00033	NAVFAC SOUTHWEST - BLDG. 1				
N60028 / 001435 DS.B126.20521 REPORT N68711-03-D-5104 650	04-04-2007 03-23-2007 00126	SULTECH ROSE, C. BRAC PMO WEST	FINAL SCREENING-LEVEL ECOLOGICAL RISK ASSESSMENT (SLERA)	ADMIN RECORD INFO REPOSITORY	SITE 00006 SITE 00012 SITE 00021 SITE 00024 SITE 00030 SITE 00031 SITE 00032 SITE 00033	NAVFAC SOUTHWEST - BLDG. 1				

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N60028 / 001500 TTEM.0055.FZN6.00 11 MINUTES N62467-04-D-0055 30		05-15-2008 04-03-2007 FZN6	TETRA TECH EM INC. BRAC PMO WEST										03 APRIL 2007 DRAFT MEETING MINUTES, REMEDIAL PROJECT MANAGERS (RPM) AND BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) [INCLUDES AGENDA, SIGN-IN SHEET, VARIOUS HANDOUTS, AND CD COPY]	ADMIN RECORD INFO REPOSITORY	BLDG 000233 SITE 00006 SITE 00009 SITE 00010 SITE 00012 SITE 00021 SITE 00024 SITE 00025 SITE 00027 SITE 00028 SITE 00030 SITE 00031 SITE 00032 SITE 00033	NAVFAC SOUTHWEST - BLDG. 1	
N60028 / 001505 TTEM.0055.FZN6.00 12 MINUTES N62467-04-D-0055 40		05-20-2008 04-03-2007 FZN6	TETRA TECH EM INC. BRAC PMO WEST										03 APRIL 2007 FINAL MEETING MINUTES, REMEDIAL PROJECT MANAGERS (RPM) AND BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) [INCLUDES AGENDA, SIGN-IN SHEET, AND VARIOUS HANDOUTS, AND CD COPY]	ADMIN RECORD INFO REPOSITORY	BLDG 000233 SITE 00006 SITE 00009 SITE 00010 SITE 00012 SITE 00021 SITE 00024 SITE 00025 SITE 00027 SITE 00028 SITE 00030 SITE 00031 SITE 00032 SITE 00033	NAVFAC SOUTHWEST - BLDG. 1	

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N60028 / 001597	03-18-2009	TETRA TECH EM,	17 APRIL 2007 FINAL RESTORATION	ADMIN RECORD	BLDG 01311	NAVFAC		
TTEM-0055-FZN6-0008	04-17-2007	INC.	ADVISORY BOARD (RAB) MEETING	INFO REPOSITORY	BLDG 01313	SOUTHWEST - BLDG.		
MINUTES	CTO FZN6	RAB MEMBERS	MINUTES, MEETING # 129 (INCLUDES		SITE 00009	1		
N62467-04-D-0055			AGENDA, VARIOUS HANDOUTS, AND CD		SITE 00010			
63			COPY)		SITE 00012			
					SITE 00021			
					SITE 00024			
					SITE 00027			
					SITE 00030			
					SITE 00031			
N60028 / 001499	05-15-2008	TETRA TECH EM	01 MAY 2007 DRAFT MEETING MINUTES,	ADMIN RECORD	BLDG 000233	NAVFAC		
TTEM.0055.FZN6.00	05-01-2007	INC.	REMEDIAL PROJECT MANAGERS (RPM)	INFO REPOSITORY	SITE 00006	SOUTHWEST - BLDG.		
14	FZN6	BRAC PMO WEST	AND BASE REALIGNMENT AND CLOSURE		SITE 00009	1		
MINUTES			(BRAC) CLEANUP TEAM (BCT) [INCLUDES		SITE 00010			
N62467-04-D-0055			AGENDA, SIGN-IN SHEET, AND VARIOUS		SITE 00012			
30			HANDOUTS, AND CD COPY]		SITE 00024			
					SITE 00025			
					SITE 00027			
					SITE 00030			
					SITE 00031			
					SITE 00033			

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N60028 / 001506 TTEM.0055.FZN6.0015 MINUTES N62467-04-D-0055 35		05-20-2008 05-01-2007 FZN6	TETRA TECH EM INC. BRAC PMO WEST										01 MAY 2007 FINAL MEETING MINUTES, REMEDIAL PROJECT MANAGERS (RPM) AND BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) [INCLUDES AGENDA, SIGN-IN SHEET, AND VARIOUS HANDOUTS, AND CD COPY]	ADMIN RECORD INFO REPOSITORY	BLDG 000233 SITE 00006 SITE 00009 SITE 00010 SITE 00012 SITE 00021 SITE 00024 SITE 00025 SITE 00027 SITE 00028 SITE 00030 SITE 00031 SITE 00032 SITE 00033	NAVFAC SOUTHWEST - BLDG. 1	
N60028 / 001498 TTEM.0055.FZN6.0017 MINUTES N62467-04-D-0055 30		05-15-2008 06-05-2007 FZN6	TETRA TECH EM INC. BRAC PMO WEST										05 JUNE 2007 DRAFT MEETING MINUTES, REMEDIAL PROJECT MANAGERS (RPM) AND BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) [INCLUDES AGENDA, SIGN-IN SHEET, VARIOUS HANDOUTS, DRAFT AGENDA FOR THE 19 JUNE 2007 RAB MEETING, AND CD COPY]	ADMIN RECORD INFO REPOSITORY	BLDG 000233 SITE 00006 SITE 00009 SITE 00010 SITE 00012 SITE 00021 SITE 00024 SITE 00025 SITE 00027 SITE 00030 SITE 00031 SITE 00032 SITE 00033	NAVFAC SOUTHWEST - BLDG. 110	

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Record Type	Record Date	Author										
Contr./Guid. No.	CTO No.	Recipient Affil.										
Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites	Location	FRC Accession No.					
						SWDIV Box No(s)	FRC Warehouse					FRC Box No(s) —
						CD No.						
N60028 / 001507	05-20-2008	TETRA TECH EM	05 JUNE 2007 FINAL MEETING MINUTES,	ADMIN RECORD	BLDG 000233	NAVFAC						
TTEM.0055.FZN6.00	06-05-2007	INC.	REMEDIAL PROJECT MANAGERS (RPM)	INFO REPOSITORY	SITE 00006	SOUTHWEST - BLDG.						
18	FZN6		AND BASE REALIGNMENT AND CLOSURE		SITE 00009	1						
MINUTES		BRAC PMO WEST	(BRAC) CLEANUP TEAM (BCT) [INCLUDES		SITE 00010							
N62467-04-D-0055			AGENDA, SIGN-IN SHEET, AND VARIOUS		SITE 00012							
40			HANDOUTS, AND CD COPY]		SITE 00021							
					SITE 00024							
					SITE 00025							
					SITE 00027							
					SITE 00028							
					SITE 00030							
					SITE 00031							
					SITE 00032							
					SITE 00033							
N60028 / 001508	05-20-2008	TETRA TECH EM	10 JULY 2007 FINAL MEETING MINUTES,	ADMIN RECORD	BLDG 000233	NAVFAC						
TTEM.0055.FZN6.00	07-10-2007	INC.	REMEDIAL PROJECT MANAGERS (RPM)	INFO REPOSITORY	SITE 00006	SOUTHWEST - BLDG.						
21	FZN6		AND BASE REALIGNMENT AND CLOSURE		SITE 00009	1						
MINUTES		BRAC PMO WEST	(BRAC) CLEANUP TEAM (BCT) [INCLUDES		SITE 00010							
N62467-04-D-0055			AGENDA, SIGN-IN SHEET, AND VARIOUS		SITE 00012							
45			HANDOUTS, AND CD COPY]		SITE 00021							
					SITE 00024							
					SITE 00025							
					SITE 00027							
					SITE 00028							
					SITE 00030							
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N60028 / 001496	05-15-2008	TETRA TECH EM	08 AND 09 AUGUST 2007 DRAFT MEETING	ADMIN RECORD	BLDG 000233	NAVFAC
TTEM.0055.FZN6.00	08-08-2007	INC.	MINUTES, REMEDIAL PROJECT MANAGERS	INFO REPOSITORY	SITE 00006	SOUTHWEST - BLDG.
23	FZN6		(RPM) AND BASE REALIGNMENT AND		SITE 00009	1
MINUTES		BRAC PMO WEST	CLOSURE (BRAC) CLEANUP TEAM (BCT)		SITE 00010	
N62467-04-D-0055			{INCLUDES AGENDA, SIGN-IN SHEET, AND		SITE 00012	
70			VARIOUS HANDOUTS} (CD COPY		SITE 00021	
			ENCLOSED)		SITE 00024	
					SITE 00025	
					SITE 00027	
					SITE 00028	
					SITE 00030	
					SITE 00032	
					SITE 00033	
N60028 / 001509	05-20-2008	TETRA TECH EM	08 AND 09 AUGUST 2007 FINAL MEETING	ADMIN RECORD	BLDG 000233	NAVFAC
TTEM.0055.FZN6.00	08-08-2007	INC.	MINUTES, REMEDIAL PROJECT MANAGERS	INFO REPOSITORY	SITE 00006	SOUTHWEST - BLDG.
24	FZN6		(RPM) AND BASE REALIGNMENT AND		SITE 00009	1
MINUTES		BRAC PMO WEST	CLOSURE (BRAC) CLEANUP TEAM (BCT)		SITE 00010	
N62467-04-D-0055			MEETING MINUTES [INCLUDES AGENDA,		SITE 00012	
200			SIGN-IN SHEET, AND VARIOUS HANDOUTS,		SITE 00021	
			AND CD COPY]		SITE 00024	
					SITE 00025	
					SITE 00027	
					SITE 00028	
					SITE 00030	
					SITE 00031	
					SITE 00032	
					SITE 00033	

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N60028 / 001599	03-18-2009	TETRA TECH EM,	21 AUGUST 2007 FINAL RESTORATION	ADMIN RECORD	SITE 00006	NAVFAC			
TTEM-0055-FZN6-0101	08-21-2007	INC.	ADVISORY BOARD (RAB) MEETING	INFO REPOSITORY	SITE 00008	SOUTHWEST - BLDG.			
MINUTES	CTO FZN6	RAB MEMBERS	MINUTES, MEETING # 131 (INCLUDES		SITE 00009	1			
N62467-04-D-0055			AGENDA, VARIOUS HANDOUTS, AND CD		SITE 00010				
32			COPY)		SITE 00012				
					SITE 00021				
					SITE 00024				
					SITE 00027				
					SITE 00028				
					SITE 00029				
					SITE 00030				
					SITE 00031				
					SITE 00033				
N60028 / 001495	05-15-2008	TETRA TECH EM	11 SEPTEMBER 2007 DRAFT MEETING	ADMIN RECORD	BLDG 000233	NAVFAC			
TTEM.0055.FZN6.00	09-11-2007	INC.	MINUTES, REMEDIAL PROJECT MANAGERS	INFO REPOSITORY	SITE 00006	SOUTHWEST - BLDG.			
26	FZN6	BRAC PMO WEST	(RPM) AND BASE REALIGNMENT AND		SITE 00008	1			
MINUTES			CLOSURE (BRAC) CLEANUP TEAM (BCT)		SITE 00009				
N62467-04-D-0055			[INCLUDES AGENDA, SIGN-IN SHEET, AND		SITE 00010				
30			VARIOUS HANDOUTS, AND CD COPY]		SITE 00012				
					SITE 00021				
					SITE 00024				
					SITE 00025				
					SITE 00027				
					SITE 00028				
					SITE 00029				
					SITE 00030				
					SITE 00031				
					SITE 00032				
					SITE 00033				

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N60028 / 001510	05-20-2008	TETRA TECH EM	11 SEPTEMBER 2007 FINAL MEETING	ADMIN RECORD	BLDG 000233	NAVFAC											
TTEM.0055.FZN6.00	09-11-2007	INC.	MINUTES, REMEDIAL PROJECT MANAGERS	INFO REPOSITORY	SITE 00006	SOUTHWEST - BLDG.											
27	FZN6		(RPM) AND BASE REALIGNMENT AND		SITE 00009	1											
MINUTES		BRAC PMO WEST	CLOSURE (BRAC) CLEANUP TEAM (BCT)		SITE 00010												
N62467-04-D-0055			[INCLUDES AGENDA, SIGN-IN SHEET, AND		SITE 00012												
40			VARIOUS HANDOUTS, AND CD COPY]		SITE 00021												
					SITE 00024												
					SITE 00025												
					SITE 00027												
					SITE 00028												
					SITE 00030												
					SITE 00031												
					SITE 00032												
					SITE 00033												
N60028 / 001494	05-15-2008	TETRA TECH EM	02 OCTOBER 2007 DRAFT MEETING	ADMIN RECORD	BLDG 000233	NAVFAC											
TTEM.0055.FZN6.00	10-02-2007	INC.	MINUTES, REMEDIAL PROJECT MANAGERS	INFO REPOSITORY	SITE 00006	SOUTHWEST - BLDG.											
29	FZN6		(RPM) AND BASE REALIGNMENT AND		SITE 00008	1											
MINUTES		BRAC PMO WEST	CLOSURE (BRAC) CLEANUP TEAM (BCT)		SITE 00009												
N62467-04-D-0055			[INCLUDES AGENDA, SIGN-IN SHEET, AND		SITE 00010												
30			VARIOUS HANDOUTS, AND CD COPY]		SITE 00012												
					SITE 00021												
					SITE 00024												
					SITE 00025												
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						CD No.						
N60028 / 001511	05-20-2008	TETRA TECH EM	02 OCTOBER 2007 FINAL MEETING	ADMIN RECORD	BLDG 000233	NAVFAC						
TTEM.0055.FZN6.00	10-02-2007	INC.	MINUTES, REMEDIAL PROJECT MANAGERS	INFO REPOSITORY	SITE 00006	SOUTHWEST - BLDG.						
30	FZN6		(RPM) AND BASE REALIGNMENT AND		SITE 00009	1						
MINUTES		BRAC PMO WEST	CLOSURE (BRAC) CLEANUP TEAM (BCT)		SITE 00010							
N62467-04-D-0055			[INCLUDES AGENDA, SIGN-IN SHEET, AND		SITE 00012							
40			VARIOUS HANDOUTS, AND CD COPY]		SITE 00021							
					SITE 00024							
					SITE 00025							
					SITE 00027							
					SITE 00028							
					SITE 00030							
					SITE 00031							
					SITE 00032							
					SITE 00033							
N60028 / 001493	05-15-2008	TETRA TECH EM	06 NOVEMBER 2007 DRAFT MEETING	ADMIN RECORD	BLDG 000233	NAVFAC						
TTEM.0055.FZN6.00	11-06-2007	INC.	MINUTES, REMEDIAL PROJECT MANAGERS	INFO REPOSITORY	SITE 00006	SOUTHWEST - BLDG.						
32	FZN6		(RPM) AND BASE REALIGNMENT AND		SITE 00008	1						
MINUTES		BRAC PMO WEST	CLOSURE (BRAC) CLEANUP TEAM (BCT)		SITE 00009							
N62467-04-D-0055			[INCLUDES AGENDA, SIGN-IN SHEET, AND		SITE 00010							
30			VARIOUS HANDOUTS, AND CD COPY]		SITE 00012							
					SITE 00021							
					SITE 00024							
					SITE 00025							
					SITE 00027							
					SITE 00028							
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					SITE 00033							

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N60028 / 001512	05-20-2008	TETRA TECH EM	06 NOVEMBER 2007 FINAL MEETING	ADMIN RECORD	BLDG 000233	NAVFAC											
TTEM.0055.FZN6.00	11-06-2007	INC.	MINUTES, REMEDIAL PROJECT MANAGERS	INFO REPOSITORY	SITE 00006	SOUTHWEST - BLDG.											
33	FZN6		(RPM) AND BASE REALIGNMENT AND		SITE 00009	1											
MINUTES		BRAC PMO WEST	CLOSURE (BRAC) CLEANUP TEAM (BCT)		SITE 00010												
N62467-04-D-0055			[INCLUDES AGENDA, SIGN-IN SHEET, AND		SITE 00012												
40			VARIOUS HANDOUTS, AND CD COPY]		SITE 00021												
					SITE 00024												
					SITE 00025												
					SITE 00027												
					SITE 00028												
					SITE 00030												
					SITE 00031												
					SITE 00032												
					SITE 00033												
N60028 / 001492	05-15-2008	TETRA TECH EM	04 DECEMBER 2007 DRAFT MEETING	ADMIN RECORD	BLDG 000233	NAVFAC											
TTEM.0055.FZN6.00	12-04-2007	INC.	MINUTES, REMEDIAL PROJECT MANAGERS	INFO REPOSITORY	SITE 00008	SOUTHWEST - BLDG.											
35	FZN6		(RPM) AND BASE REALIGNMENT AND		SITE 00009	1											
MINUTES		BRAC PMO WEST	CLOSURE (BRAC) CLEANUP TEAM (BCT)		SITE 00010												
N62467-04-D-0055			[INCLUDES AGENDA, SIGN-IN SHEET, AND		SITE 00012												
30			VARIOUS HANDOUTS, AND CD COPY]		SITE 00024												
					SITE 00027												
					SITE 00028												
					SITE 00029												
					SITE 00030												
					SITE 00031												
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N60028 / 001513 TTEM.0055.FZN6.00 36 MINUTES N62467-04-D-0055 40	05-20-2008 12-04-2007 FZN6	TETRA TECH EM INC. BRAC PMO WEST	04 DECEMBER 2007 FINAL MEETING MINUTES, REMEDIAL PROJECT MANAGERS (RPM) AND BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) [INCLUDES AGENDA, SIGN-IN SHEET, AND VARIOUS HANDOUTS, AND CD COPY]	ADMIN RECORD INFO REPOSITORY	BLDG 000233 SITE 00006 SITE 00009 SITE 00010 SITE 00012 SITE 00021 SITE 00024 SITE 00025 SITE 00027 SITE 00028 SITE 00030 SITE 00031 SITE 00032 SITE 00033	NAVFAC SOUTHWEST - BLDG. 1		
N60028 / 001617 TTEM-0055-FZN6- 0112 MINUTES N62467-04-D-0055 57	06-01-2009 02-05-2008 CTO FZN6	TETRA TECH EM, INC. BRAC PMO WEST	05 FEBRUARY 2008 FINAL REMEDIAL PROJECT MANAGERS (RPM) AND BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) MEETING MINUTES [INCLUDES AGENDA, SIGN-IN SHEET, AND VARIOUS HANDOUTS] {CD COPY ENCLOSED}	ADMIN RECORD INFO REPOSITORY	BLDG 00233 SITE 00006 SITE 00012 SITE 00024 SITE 00030 SITE 00031	NAVFAC SOUTHWEST - BLDG. 1		
N60028 / 001618 TTEM-0055-FZN6- 0115 MINUTES N62467-04-D-0055 48	06-01-2009 03-04-2008 CTO FZN6	TETRA TECH EM, INC. BRAC PMO WEST	04 MARCH 2008 FINAL REMEDIAL PROJECT MANAGERS (RPM) AND BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) MEETING MINUTES [INCLUDES AGENDA, SIGN-IN SHEET, AND VARIOUS HANDOUTS] {CD COPY ENCLOSED}	ADMIN RECORD INFO REPOSITORY	BLDG 01319 BLDG 01321 SITE 00006 SITE 00011 SITE 00012 SITE 00021 SITE 00024 SITE 00030 SITE 00031	NAVFAC SOUTHWEST - BLDG. 1		

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N60028 / 001480 BRAC SER BPMOW.CP/0313 & BAI-5106-0025-0001 CORRESPONDENC N68711-03-D-5106 17	03-25-2008 03-07-2008 CTO 0025	BRAC PMO WEST SULLIVAN, J. DTSC - BERKELEY, CA MIYA, R.	TRANSMITTAL OF THE RESPONSE TO COMMENTS ON DRAFT PROPOSED PLANS, DAYCARE CENTER AND FORMER SOUTH STORAGE YARD (W/ ENCLOSURE) [CD COPY ENCLOSED]	ADMIN RECORD INFO REPOSITORY	SITE 00030 SITE 00031	NAVFAC SOUTHWEST - BLDG. 1	
N60028 / 001558 TTEM.0055.FZN6.01 17 MINUTES N62467-04-D-0055 43	12-04-2008 04-01-2008 FZN6	TETRA TECH EM, INC. BRAC PMO WEST	01 APRIL 2008 DRAFT REMEDIAL PROJECT MANAGERS (RPM) AND BASE REALIGNMENT AND CLOSURE (BRAC) AND CLEANUP TEAM (BCT) MEETING MINUTES (INCLUDES AGENDA, SIGN-IN SHEET, VARIOUS HANDOUTS, AND CD COPY)	ADMIN RECORD INFO REPOSITORY	BLDG 00233 BLDG 01207 BLDG 01209 BLDG 01231 BLDG 01233 BLDG 01319 BLDG 01321 SITE 00006 SITE 00012 SITE 00024 SITE 00027 SITE 00030 SITE 00031 SITE 00032	NAVFAC SOUTHWEST - BLDG. 1	
N60028 / 001620 TTEM-0055-FZN6- 0118 MINUTES N62467-04-D-0055 43	06-04-2009 04-01-2008 CTO FZN6	TETRA TECH EM, INC. BRAC PMO WEST	01 APRIL 2008 FINAL REMEDIAL PROJECT MANAGERS (RPM) AND BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) MEETING MINUTES [INCLUDES AGENDA, SIGN-IN SHEET, AND VARIOUS HANDOUTS] [CD COPY ENCLOSED]	ADMIN RECORD INFO REPOSITORY	BLDG 00233 BLDG 01207 BLDG 01209 BLDG 01233 BLDG 01319 BLDG 01321 SITE 00012 SITE 00021 SITE 00024 SITE 00027 SITE 00030 SITE 00031	NAVFAC SOUTHWEST - BLDG. 1	

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N60028 / 001559	TTEM.0055-FZN6.01	12-04-2008	TETRA TECH EM, INC.	MINUTES	05-06-2008				BRAC PMO WEST	20	FZN6		06 MAY 2008 DRAFT REMEDIAL PROJECT MANAGERS (RPM) AND BASE REALIGNMENT AND CLOSURE (BRAC) AND CLEANUP TEAM (BCT) MEETING MINUTES (INCLUDES AGENDA, SIGN-IN SHEET, VARIOUS HANDOUTS, AND CD COPY)	ADMIN RECORD INFO REPOSITORY	BLDG 00233 BLDG 00343 BLDG 01123 BLDG 01207 BLDG 01209 BLDG 01231 BLDG 01233 BLDG 01321 BLDG 01325 BLDG 1321A SITE 00011 SITE 00012 SITE 00024 SITE 00027 SITE 00030 SITE 00031 SITE 00032	NAVFAC SOUTHWEST - BLDG. 1	
N60028 / 001621	TTEM-0055-FZN6-0121	06-04-2009	TETRA TECH EM, INC.	MINUTES	05-06-2008				BRAC PMO WEST	47			06 MAY 2008 FINAL REMEDIAL PROJECT MANAGERS (RPM) AND BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) MEETING MINUTES [INCLUDES AGENDA, SIGN-IN SHEET, AND VARIOUS HANDOUTS] {CD COPY ENCLOSED} (CONTAINS SENSITIVE MAPS)	ADMIN RECORD INFO REPOSITORY SENSITIVE	BLDG 00233 BLDG 01207 BLDG 01209 BLDG 01231 BLDG 01233 BLDG 01319 BLDG 01321 SITE 00011 SITE 00012 SITE 00024 SITE 00027 SITE 00030 SITE 00031	NAVFAC SOUTHWEST - BLDG. 1	

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N60028 / 001560 TTEM.0055.FZN6.01 41 MINUTES N62467-04-D-0055 81		12-04-2008 06-03-2008 FZN6	TETRA TECH EM, INC. BRAC PMO WEST										03 JUNE 2008 DRAFT REMEDIAL PROJECT MANAGERS (RPM) AND BASE REALIGNMENT AND CLOSURE (BRAC) AND CLEANUP TEAM (BCT) MEETING MINUTES (INCLUDES AGENDA, SIGN-IN SHEET, VARIOUS HANDOUTS, AND CD COPY)	ADMIN RECORD INFO REPOSITORY	BLDG 00233 BLDG 00461 BLDG 01319 BLDG 01321 SITE 00012 SITE 00024 SITE 00027 SITE 00030 SITE 00031 SITE 00032	NAVFAC SOUTHWEST - BLDG. 1	
N60028 / 001622 TTEM-0055-FZN6- 0142 MINUTES N62467-04-D-0055 82		06-04-2009 06-03-2008 CTO FZN6	TETRA TECH EM, INC. BRAC PMO WEST										03 JUNE 2008 FINAL REMEDIAL PROJECT MANAGERS (RPM) AND BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) MEETING MINUTES [INCLUDES AGENDA, SIGN-IN SHEET, AND VARIOUS HANDOUTS] {CD COPY ENCLOSED} (CONTAINS SENSITIVE MAP)	ADMIN RECORD INFO REPOSITORY SENSITIVE	BLDG 00001 BLDG 00003 BLDG 00180 BLDG 00233 BLDG 00240 BLDG 00461 BLDG 01319 BLDG 01321 SITE 00006 SITE 00012 SITE 00021 SITE 00024 SITE 00027 SITE 00030 SITE 00031 SITE 00033	NAVFAC SOUTHWEST - BLDG. 1	

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N60028 / 001604	03-18-2009	TETRA TECH EM,	17 JUNE 2008 FINAL RESTORATION	ADMIN RECORD	BLDG 00233		NAVFAC	
TTEM-0055-FZN6-	06-17-2008	INC.	ADVISORY BOARD (RAB) MEETING	INFO REPOSITORY	SITE 00006		SOUTHWEST - BLDG.	
0130	CTO FZN6		MINUTES, MEETING # 136 (INCLUDES		SITE 00012		1	
MINUTES		RAB MEMBERS	AGENDA, VARIOUS HANDOUTS, AND CD		SITE 00021			
N62467-04-D-0055			COPY)		SITE 00024			
27					SITE 00025			
					SITE 00030			
					SITE 00031			
					SITE 00032			
					SITE 00033			

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N60028 / 001624	07-01-2009	TETRA TECH EM, INC.	08-09 JULY 2008 FINAL REMEDIAL PROJECT MANAGERS (RPM) AND BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) MEETING MINUTES [INCLUDES AGENDA, SIGN-IN SHEET, VARIOUS HANDOUTS, AND CD COPY]	ADMIN RECORD	BLDG 00225	NAVFAC
TTEM-0055-FZN6-0145	07-08-2008			INFO REPOSITORY	BLDG 00233	SOUTHWEST - BLDG. 1
MINUTES	CTO FZN6	BRAC PMO WEST			BLDG 00344	
N62467-04-D-0055					BLDG 01202	
85					BLDG 01211	
					BLDG 01213	
					BLDG 01215	
					BLDG 01217	
					BLDG 01228	
					BLDG 01232	
					BLDG 01235	
					BLDG 01237	
					BLDG 01311	
					BLDG 01313	
					BLDG 01315	
					BLDG 01317	
					BLDG 01319	
					BLDG 01321	
					BLDG 01325	
					SITE 00006	
					SITE 00008	
					SITE 00011	
					SITE 00012	
					SITE 00020	
					SITE 00021	
					SITE 00024	
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Record Type	Record Date	Author					SWDIV Box No(s)	FRC Warehouse
Contr./Guid. No.	CTO No.	Recipient Affil.					CD No.	FRC Box No(s)
Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites			
N60028 / 001625	07-01-2009	TETRA TECH EM,	06 AUGUST 2008 FINAL REMEDIAL PROJECT	ADMIN RECORD	BLDG 00233		NAVFAC	
TTEM-0055-FZN6-	08-06-2008	INC.	MANAGERS (RPM) AND BASE	INFO REPOSITORY	BLDG 00461		SOUTHWEST - BLDG.	
0148	CTO FZN6		REALIGNMENT AND CLOSURE (BRAC)		BLDG 01123		1	
MINUTES		BRAC PMO WEST	CLEANUP TEAM (BCT) MEETING MINUTES		BLDG 01207			
N62467-04-D-0055			[INCLUDES AGENDA, SIGN-IN SHEET,		BLDG 01209			
55			VARIOUS HANDOUTS, AND CD COPY]		BLDG 01237			
					BLDG 01319			
					SITE 00006			
					SITE 00011			
					SITE 00012			
					SITE 00021			
					SITE 00024			
					SITE 00025			
					SITE 00030			
					SITE 00031			
					SITE 00032			

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.	Record Type	Record Date	Author	Contr./Guid. No.	CTO No.	Recipient Affil.	Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites	Location SWDIV Box No(s) CD No.	FRC Accession No. FRC Warehouse FRC Box No(s)
N60028 / 001626	TTEM-0055-FZN6-0151	07-01-2009	TETRA TECH EM, INC.	MINUTES	09-10-2008			CTO FZN6	BRAC PMO WEST	48			10 SEPTEMBER 2008 FINAL REMEDIAL PROJECT MANAGERS (RPM) AND BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) MEETING MINUTES [INCLUDES AGENDA, SIGN-IN SHEET, VARIOUS HANDOUTS, AND CD COPY]	ADMIN RECORD INFO REPOSITORY	BLDG 00233 BLDG 00343 BLDG 00344 BLDG 01211 BLDG 01213 BLDG 01235 BLDG 01237 BLDG 01319 BLDG 01321 BLDG 01325 SITE 00006 SITE 00008 SITE 00012 SITE 00021 SITE 00024 SITE 00028 SITE 00029 SITE 00030 SITE 00031 SITE 00033	NAVFAC SOUTHWEST - BLDG. 1	
N60028 / 001548	BRAC SER BPMOW.CLP/1024 CORRESPONDENC NONE	10-23-2008	BRAC PMO WEST SULLIVAN, J. DTSC - BERKELEY MIYA, R.		10-16-2008			NONE		2			TRANSMITTAL OF THE 1) DRAFT, DAYCARE CENTER RECORD OF DECISION (ROD)/FINAL REMEDIAL ACTION PLAN (RAP), AND 2) DRAFT, FORMER SOUTH STORAGE YARD RECORD OF DECISION (ROD) [W/OUT ENCLOSURE]	ADMIN RECORD INFO REPOSITORY	SITE 00030 SITE 00031	NAVFAC SOUTHWEST - BLDG. 1	
N60028 / 001549	BAI.5106.0025.0003 REPORT	10-23-2008	BARAJAS & ASSOCIATES, INC.		10-16-2008			00025	BRAC PMO WEST	60			DRAFT, DAYCARE CENTER RECORD OF DECISION (ROD)/FINAL REMEDIAL ACTION PLAN (RAP) [CD COPY ENCLOSED]	SITE FILE (SF)	BLDG 00502 PARCEL T094 SITE 00030	NAVFAC SOUTHWEST - BLDG. 1	

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Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites	CD No.	FRC Box No(s)	
N60028 / 001627	07-01-2009	TETRA TECH EM, INC.	05 NOVEMBER 2008 FINAL REMEDIAL PROJECT MANAGERS (RPM) AND BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) MEETING MINUTES [INCLUDES AGENDA, SIGN-IN SHEET, VARIOUS HANDOUTS, AND CD COPY]	ADMIN RECORD	BLDG 01211	NAVFAC		
TTEM-0055-FZN6-0157	11-05-2008			INFO REPOSITORY	BLDG 01213	SOUTHWEST - BLDG.		
MINUTES	CTO FZN6	BRAC PMO WEST			BLDG 01235	1		
N62467-04-D-0055					BLDG 01237			
50					BLDG 01319			
					BLDG 01321			
					BLDG 01325			
					SITE 00006			
					SITE 00007			
					SITE 00010			
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						SWDIV Box No(s)	FRC Warehouse					
						CD No.	FRC Box No(s)					
N60028 / 001628	07-01-2009	TETRA TECH EM, INC.	03 DECEMBER 2008 FINAL REMEDIAL PROJECT MANAGERS (RPM) AND BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) MEETING MINUTES [INCLUDES AGENDA, SIGN-IN SHEET, VARIOUS HANDOUTS, AND CD COPY]	ADMIN RECORD	BLDG 01145	NAVFAC						
TTEM-0055-FZN6-0160	12-03-2008			INFO REPOSITORY	BLDG 01302	SOUTHWEST - BLDG.						
MINUTES	CTO FZN6	BRAC PMO WEST			BLDG 01306	1						
N62467-04-D-0055					BLDG 01313							
47					BLDG 01315							
					BLDG 01317							
					BLDG 01319							
					BLDG 01321							
					BLDG 01325							
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					SITE 00032							
N60028 / 001563	12-10-2008	CRWQCB -	REVIEW AND NO COMMENTS ON 1) DRAFT	ADMIN RECORD	SITE 00030	NAVFAC						
FILE NO. 2169.6013 (PJ)	12-08-2008	OAKLAND, CA	DAYCARE CENTER RECORD OF DECISION (ROD)/FINAL REMEDIAL ACTION PLAN (RAP), AND 2) DRAFT FORMER SOUTH STORAGE YARD RECORD OF DECISION (ROD) [CD COPY ENCLOSED]	INFO REPOSITORY	SITE 00031	SOUTHWEST - BLDG.						
CORRESPONDENC	NONE	JORGENSEN, P.				1						
NONE		BRAC PMO WEST										
1		SULLIVAN, J.										

UIC No. / Rec. No.								
Doc. Control No.	Prc. Date	Author Affil.					Location	FRC Accession No.
Record Type	Record Date	Author					SWDIV Box No(s)	FRC Warehouse
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Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites			
N60028 / 001630	07-06-2009	TETRA TECH EM,	DRAFT SITE MANAGEMENT PLAN (CD COPY	ADMIN RECORD	SITE 00001		NAVFAC	
TTEM-0055-FZN6-	04-16-2009	INC.	ENCLOSED)	INFO REPOSITORY	SITE 00003		SOUTHWEST - BLDG.	
0194	CTO FZN6	RASH, M.			SITE 00004		1	
REPORT		BRAC PMO WEST			SITE 00006			
N62467-04-D-0055					SITE 00007			
150					SITE 00008			
					SITE 00009			
					SITE 00010			
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Total Estimated Record Page Count: 4,675

Total - Administrative Records: 85

[UIC NUMBER]='N60028'
No Keywords
Sites=030;SITE 00030;SITE 00030
SITE 00031
No Classification

APPENDIX C

Public Notice, Roster of Public Meeting Attendees, and Public Meeting Transcript

DECLARATION OF PUBLICATION OF SAN FRANCISCO CHRONICLE

WESLEY MANALASTAS

declares that:

The annexed advertisement has been regularly published in the

SAN FRANCISCO CHRONICLE

which is and was at all times herein mentioned established as newspaper of general circulation in the City and County of San Francisco, State of California, as that term is defined by Section 6000 of the Government Code.

SAN FRANCISCO CHRONICLE

(Name of Newspaper)

901 Mission Street

San Francisco, CA 94103

From September 23, 2008

To September 23, 2008

Namely, on September 23, 2008

(Dates of Publication)

I declare under penalty of perjury that the foregoing is true and correct.

Executed on September 23, 2008

at San Francisco, California.

Wesley Manalastas

WESLEY MANALASTAS

PUBLIC NOTICE

PUBLIC NOTICE
The Dept. of the Navy Announces Availability of the Proposed Plans/Draft Remedial Action Plans (PP/Draft RAPs) for Installation Restoration Sites 30 and 31 at Naval Station, Treasure Island, SF, CA.

The Navy, in coordination with state environmental regulatory agencies, encourages the public to comment on the PP/Draft RAPs to clean up contaminated soil at Installation Restoration Site 30, Daycare Center, and Site 31, Former South Storage Yard, located at former Naval Station, Treasure Island.

Treasure Island is located in the SF Bay, just north of the Bay Bridge. It was built in 1936 for the Golden Gate International Exposition, and used by the Navy from 1941 through 1997. Reuse of the property is currently coordinated by the City of SF. Investigations indicated the presence of SOH₂ contaminations at Sites 30 and 31. PP/Draft RAPs have been assembled for each site, providing a summary of site evaluations, including remedial investigations, feasibility studies, and human health and ecological risk assessments. The Navy proposes remedial action to address potential risks to human health and the environment.

PUBLIC COMMENT PERIOD
The Navy invites interested members of the public to review and comment on the PP/Draft RAPs during the 30-day public comment period from September 23, 2008 through October 23, 2008. Public comments must be postmarked or emailed by October 23, 2008 or submitted at the public meeting on October 27, 2008. Please send all comments and

PUBLIC NOTICE

James B. Sullivan, Navy BRAC PMO, West 31455 Frazee Road, Suite 8900, San Diego, CA 92108-4310, (619) 532-0966, Email: James.b.sullivan2@navy.mil

The Department of Toxic Substances Control (DTSC) also invites the public to review and comment on the draft Negative Declaration pursuant to the California Environmental Quality Act (CEQA). The draft Negative Declaration finds that the implementation of the cleanup alternatives at Sites 30 and 31 would have no impact to public health and the environment. Please send written comments on the Negative Declaration to Mr. Ryan Miya, 700 Heinz Avenue, Berkeley, CA 94710-2721, (510) 340-3775, Email: rmiya@dtsc.ca.gov

PUBLIC MEETING
The Navy will host a public meeting to discuss the PP/Draft RAPs and accept public comments on October 7, 2008, 7:00 p.m. to 8:00 p.m. at Casa de la Estrella Building #2271, Treasure Island.

FOR MORE INFORMATION
Copies of the PP/Draft RAPs, Feasibility Studies, Remedial Investigations, and other site-related documents are available for review at the Information Repository at San Francisco Public Library, Government Publications Section, 100 Larkin Street, San Francisco, California, (415) 557-4400 and Navy BRAC Caretaker Site Office, 410 Palm Ave., Bldg 21, Rm 161, TI, SF, CA 94120, (415) 743-4729. Select documents are also available on the Navy's website at: www.bracpmo.navy.mil

Former Naval Station Treasure Island

Sites 30/31 PP Public Meeting

Name	Affiliation (if any)	Street Address	City/State	Zip	Email
Tommie Jean Damtel	Tetra Tech	135 Main St. 9e 1800	San Francisco, CA	94570	Tommie.Jean.Damtel @ttemi.com
Peter Berger	Shaw				
Charles Perry	Navy				charles.L.perry@navy.mil
Scott Anderson	Navy				scott.d.anderson@navy.mil
Ryan Miya	DTSC				rmiya@dtsc.ca.gov
Margaret Berry	BAI				
Christine Katin	EPA				Katin.Christine@epa.gov
LAILA De Silva	BGCST	401 13th St Ave	SF	94130	ldesilva@kiddub.org
Deb Eberhart	BGCST	401 13th St	SF	94130	Deberhart.kiddub.org
KYAW NAING	BAI			94153	KYAWNAING@HOTMAIL.CO
Brian Roco	Resident	1237-A N. Pt. Dr	SF	94130	
Paisa Jorgensen	Water Board				pjorgensen@waterboard.org
ELI VEDAGIRI	BARAKS & ASSOC., INC.				eli.v@bai.cc
James Sullivan	NCH				

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REPORTER'S TRANSCRIPT OF MEETING

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OCTOBER 7, 2008

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Casa de la Vista, Building 271
Avenue of the Palms, Treasure Island
San Francisco, California

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Reported by Christine M. Niccoli, RPR, C.S.R. No. 4569

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## PARTICIPANTS

FACILITATOR: JAMES B. SULLIVAN - United States Navy

## PRESENTERS:

CHARLES PERRY - United States Navy (page 4)

RYAN MIYA - Department of Toxic Substances Control  
(DTSC) (page 26)

## CONSULTANTS, REGULATORS:

SCOTT ANDERSON - United States Navy

MARGARET BERRY - Barajas &amp; Associates, Inc.

PETER BOURGEOIS - Shaw Environmental and  
Infrastructure, Inc.

TOMMIE JEAN DAMREL - Tetra Tech EM Inc.

PAISHA JORGENSEN - San Francisco Bay Regional Water  
Quality Control BoardCHRISTINE KATIN - U.S. Environmental Protection  
Agency (EPA)

KYAW NAING - Barajas &amp; Associates, Inc.

ELI VEDAGIRI - Barajas &amp; Associates, Inc.

## PUBLIC AUDIENCE:

LAVINA DE SILVA, DEB EBERHART, BART RUGO

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TREASURE ISLAND, SAN FRANCISCO, CALIFORNIA

TUESDAY, OCTOBER 7, 2008, 7:03 P.M.

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MR. SULLIVAN: Okay. Well, a few minutes after  
7 o'clock, and so we'll get the meeting started.I'm Jim Sullivan from the Navy, and we're here  
tonight for the Sites 30 and 31 Proposed Plan meeting.  
And we'll have a presentation on the Proposed Plan and  
Draft Remedial Action Plans and then also a presentation  
on the State's CEQA determination, and then we'll have  
opportunity for clarifying comments and then finally --  
or clarifying questions, and then finally we'll open it  
up for public comment.So we do have a court reporter here today.  
It's tonight. So we'd ask if you are going to speak,  
to, you know, please state your name and, you know,  
enunciate for the -- for the record so that we can  
accurately capture all of your questions and comments.  
So at this point -- and as you walked in,  
you've seen we have some posters, some of which are --  
will be replicated on the presentation. And so you're  
welcome to stay after the meeting to, you know, further  
look at and discuss the posters.

There are meeting materials on the back table.

There's a copy of tonight's presentation as well as

additional copies of the two Proposed Plans.

And then if you haven't signed in, we do ask  
that you do sign in. That way we can identify you as  
having attended and make sure that you're on our mailing  
list for future information.So thank you for coming, and I'll turn the  
meeting over to Charles Perry, our project manager.

MR. PERRY: All right. Thank you, Jim.

## PRESENTATION

BY CHARLES PERRY:

As Jim mentioned, my name's Charles Perry, lead  
remedial project manager for Treasure Island, and I'll  
be going over the Proposed Plans/Draft Remedial Action  
Plans for the Sites 30, day care center, and Site 31,  
former south storage yard. And the former south storage  
yard you might be more familiar with as being the  
playground area of the former elementary school that was  
out here on the island.So let's see. Okay. This is a little snapshot  
of what I'll be going over: Some brief background of  
Treasure Island; the -- go over the Site 30 day care  
center Proposed Plan; Site 31 Proposed Plan and the  
public involvement process; schedule; the State of  
California CEQA, which is the -- CEQA stands for  
California Environmental Quality Act. So Ryan will goover that. And then we'll take public comment, if any,  
on the Proposed Plans.So the Navy -- we're out here cleaning up, but  
we don't just do it on our own. We actually have a  
whole set of partners out here.And we basically -- it's the Department of Navy  
for our Base Realignment and Closure, or BRAC, Cleanup  
Team, called BCT, an acronym within an acronym. And  
that consists of the California Environmental Protection  
Agency, Cal EPA; Department of Toxic Substances Control,  
and the Regional Water Quality Control Board and then  
also the U.S. Environmental Protection Agency. So it's  
a pretty good group of federal and state agencies up  
here.We also get infor- -- bring in the local reuse  
authority, which is the Treasure Island Development  
Authority, TIDA, you probably are aware of. And then we  
also bring the public into the process through the  
Restoration Advisory Board and -- and then also  
community involvement through public meetings such as  
this.Now, Jim, would you like to give a little --  
little plug on the Restoration Advisory Board?

MR. SULLIVAN: Yes.

The Restoration Advisory Board consists of the

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1 governmental members as well as community members. And  
2 the RAB has been meeting regularly here since 1994, and  
3 we currently have about ten community members.

4 And we're always looking to add additional  
5 members to the RAB for anyone interested. You don't  
6 have to -- you don't have to have specific environmental  
7 experience. You don't have to -- you don't have to live  
8 on the Island. You just to have an interest in the  
9 environmental program at Treasure Island and Yerba Buena  
10 Island.

11 So the RAB currently meets every second month  
12 right here in the Casa on the third Tuesday of every  
13 second month. And so our next meeting is two weeks from  
14 today on October 21st, also at 7 o'clock.

15 And so we'd invite -- it's a public meeting.  
16 Everyone's welcome to attend. If you don't wish to be a  
17 member, you're welcome to attend as many meetings as  
18 you'd like as a member of the public. And so we would  
19 hope to -- to see more people attending the RAB  
20 meetings.

21 And we generally provide information on the RAB  
22 on a lot of our information sheets, and then there is  
23 also more information as well as an application on our  
24 Navy Web site.

25 MR. PERRY: Thank you, Jim.

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1 Okay. A little background. Treasure Island,  
2 as you know, it's within the City and County of San  
3 Francisco, okay, right here [Slide 4]. Treasure Island  
4 itself, the man-made portion, it was built in the '30s,  
5 and this [Slide 5] -- the larger piece is the man-made  
6 portion, and then Yerba Buena Island is the natural  
7 piece of former Naval Station Treasure Island.

8 Treasurer Island was initially built for the  
9 Golden Gate International Exposition, and then the Navy  
10 took over ownership in the '40s, and naval operations  
11 were shut down in the late '90s. And TIDA currently is  
12 handling reuse of the Island, although it's still owned  
13 by the Navy.

14 So Sites 30 and 31 [Indicating]. Here's a good  
15 location. It's kind of hard to read that, but they are  
16 located fairly central part of the Island.

17 Here's future site reuse. We looked at the  
18 1996 reuse plan. That was what we had for a while.  
19 There's a newer version of the reuse plan. But as we're  
20 going through our CERCLA process, which is a long path,  
21 we need to -- we have milestones.

22 And so at the time, this was what was  
23 available, so we used it. And it showed Site 30 and 31  
24 as being residential open space, which is -- pretty  
25 much, I believe, coincides with the current reuse plan.

1 And for the immediate future, the day care  
2 center is projected to stay a daycare center; and the  
3 elementary schoolyard has similar-type uses, Boys &  
4 Girls Club or activities that are in that area. But the  
5 school itself as an elementary school was closed down in  
6 the base.

7 So the purpose of the Proposed Plan and the  
8 Remedial Action Plan: What the Proposed Plan does is it  
9 presents the Navy's preferred cleanup alternative. What  
10 we do in the process -- we go through the CERCLA  
11 process -- is: We -- at the feasibility study phase, we  
12 look at a bunch of different alternatives. And in the  
13 Proposed Plan, we summarize that and present it to the  
14 public to get input on those alternatives.

15 And so it's the second line. And then the  
16 comments that we receive on the Proposed Plan, both  
17 written as well as any verbal comments we receive  
18 tonight, we -- we put it into a responsiveness summary,  
19 and that is published in the Record of Decision, or  
20 ROD.

21 The Remedial Action Plan is for the Cal Health  
22 and Safety Codes, a state requirement; and it's for  
23 bases that are not on the National Priorities List. And  
24 so Treasure Island is -- is not on the National  
25 Priorities List, so we do this Remedial Action Plan

1 requirement. It has some similar aspects to the  
2 Proposed Plans, so we're able to merge the two documents  
3 fairly well.

4 Let's see. Yeah. As it mentions there, we are  
5 presenting them together.

6 And this is the same process that's up here.  
7 It's just in a different format. We go through initial  
8 site discovery; and we can do some initial, you know,  
9 preliminary assessment work, which is looking at  
10 historical documentation, looking at aerial  
11 photographs.

12 If it were determined that we need to move  
13 forward to go into remedial investigation, we do soil  
14 sampling, groundwater sampling, get information from  
15 there, do risk calculations. And then, if need be, we  
16 move into the feasibility study where we actually look  
17 at different alternatives. And you'll see in slides  
18 that are coming up the actual alternatives that we look  
19 at.

20 And then the Proposed Plan, which is where we  
21 are at currently, we present those -- summarize those  
22 alternatives, present them to the public, get input on  
23 that.

24 And in the Proposed Plan, we're presenting what  
25 our -- what we think -- which remedial alternative we

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1 think we should go into the field with, and then that's  
2 documented in the Record of Decision.

3 Then the remedial design is the next phase  
4 where we actually do a work plan for the project and  
5 then -- and then do the pro- -- the remedial action is  
6 actually going into the field; or if it's institutional  
7 controls, there's other processes for that that we'll go  
8 into. And then five-year review.

9 So some of you -- or most of you, hopefully,  
10 saw the Proposed Plan. This is the cover page for  
11 Site 30. The Site 31 Proposed Plan looked very  
12 similar.

13 And it -- all these areas here [indicating]  
14 are -- basically, it's a summary. We summarize what  
15 we've done in previous documents up to this point and  
16 looked at -- summarize the risk assessments, looked at  
17 the remedial alternatives and then the proposed -- the  
18 preferred remedial alternative.

19 And these were mailed out September 16th  
20 through the 18th. And then right now we are in the  
21 public comment period for the -- both Proposed Plans.

22 So I got a request, actually, to go through  
23 Site 31 first. So I'm going to quickly scan through  
24 these, do Site 31 first, and then come back and do  
25 Site 30.

11

1 MS. EBERHART: Thank you.

2 MR. PERRY: You're welcome.

3 So I'm going to do this.

4 Okay. Site 31. And as I know some of you were  
5 looking at the figures and boards that we have up around  
6 here, this [Slide 20] is the area that we're looking at  
7 for Site 31. The day care center is actually -- here's  
8 the northern part of that building, and this is 11th  
9 Street, Avenue E, and Avenue D. And this is the  
10 schoolyard, the elementary schoolyard in this area here  
11 [indicating].

12 So you'll notice that we have five debris  
13 areas, A through E. And as I walk you through the  
14 different alternatives that we looked at, it ranges from  
15 no action to digging all of these debris areas out and  
16 removing them from the base.

17 So moving forward. Background summary: The  
18 reason why we call it the South Storage Yard is the Navy  
19 used to use it as a storage yard in the '70s. At one  
20 point, the site was paved over and developed as an  
21 elementary schoolyard.

22 And then the way we found what we call Site 31  
23 is: There was an as-built drawing that we located in  
24 2002 which has a little -- you know, written on there is  
25 a "trash dump" near a utility line on 11th Street.

12

1 So 11th Street . . . Where am I here. Here.

2 Here's 11th Street [indicating]. So when we saw that,  
3 we basically went out and did some investigation and  
4 determined that there was material there, and we labeled  
5 Sites 30 and 31 based on that.

6 So here [Slide 22] are some of the activities  
7 we did. It was that initial investigation we did based  
8 on seeing that as-built drawing. We did trenching  
9 investigation in the area. We also did a time-critical  
10 removal action which . . . , let's see. Actually, let  
11 me -- let me back up a couple.

12 This area here [Slide 20], these kind of  
13 tannish-colored strips, this was that time-critical  
14 removal action. We actually went out and excavated in  
15 these two -- in these two areas previously. And these  
16 were in the areas that didn't have paving at that time.  
17 So it was felt that there was potentially an exposure  
18 pathway because we have soil there, so now you'll see  
19 we're looking at in these paved areas going out and  
20 doing some additional work.

21 So I was . . . Here we go [Slide 23].

22 So as part of the process during the remedial  
23 investigation, we look at human health risk assessment.  
24 And I'm not going through all of this, but basically,  
25 you collect data. You develop the chemical of potential

13

1 concern out there, and then you do some assessments,  
2 risk assessments, based on that.

3 One thing to take out of this is we did two  
4 different calculations: one with asphalt pavement and  
5 then one without asphalt pavement.

6 So, basically, as it is currently, or if anyone  
7 came out and pulled off the asphalt and made like a  
8 grass field out there, what would be the risk for both  
9 of those situations? So here is the risk, and this is  
10 if asphalt pavement were removed. So this is not the  
11 existing condition.

12 But what we did is with cancer risk for the  
13 elementary school child/staff and construction worker,  
14 the risk was basically within the risk management --  
15 risk management range, which is 10 to the minus 6 and 10  
16 to the minus 4.

17 Another way of looking at that 10 to the minus  
18 6 and 10 to the minus 4 is: 10 to the minus 6 is  
19 basically 1 in a million, and 10 to the minus 4 is 1 in  
20 10,000; and so it's a little bit easier way to wrap your  
21 head around what those numbers are.

22 We also looked at -- this is basically the  
23 current usage that might happen at the site. The  
24 hypothetical future use is in -- you know, there was  
25 commercial or industrial worker at the site or child or

14

16

1 adult resident so if someone built a house in that  
2 area.

3 And so for there we are within the risk  
4 management range for -- I'll step back a little bit.  
5 There's two different methods for risk calculations, the  
6 federal and the state. So for the federal, we were  
7 within the risk management range; and for the state, we  
8 were above that risk management range. So basically, it  
9 was more than 1 in 10,000 risk.

10 So noncancer hazards: We were below the hazard  
11 index threshold of 1, just another calculation we do,  
12 and this was for every -- everyone except for the  
13 hypothetical resident and commercial/industrial worker.

14 And the chemicals of concern at the site are  
15 dioxins, benzo(a)pyrene, and lead. One thing to point  
16 out, as I mentioned before, this was for a -- with the  
17 asphalt pavement removed.

18 So with the pavement there, there is not an  
19 exposure pathway at the site. So there's not a risk for  
20 current folks that are out at the site or that may be on  
21 the site.

22 We also look at ecological risk. And both for  
23 30 and 31, just due to the nature of Treasure Island,  
24 lot of paved areas and structures, it's not significant  
25 wild habitat. And as far as groundwater, there

1 action objectives [Slide 27].

2 But one thing to pull out of it, one of the  
3 most conservative ones we have is the residential  
4 receptors, which is really where we're looking at and  
5 moving forward in this process.

6 And here's [Slide 29] the alternatives that I  
7 discussed. We had five of them for this site. There's  
8 always -- We always look at a no-action alternative  
9 when we're looking through these. You want to have a  
10 baseline to compare the others against. And then also  
11 if we ever have, you know, action alternatives, we're  
12 also required to look at a complete removal alternative  
13 so there would be no risk.

14 And so then in between those two, the extreme  
15 is on the other end. We have the other alternatives.  
16 Here's one: engineering controls combined with  
17 institutional controls. And basically, engineering  
18 control could be the asphalt that's out there. So  
19 maintaining the asphalt would be an engineering  
20 control.

21 Institutional controls are deeds and  
22 restrictions that are -- that were put on the property  
23 so that if you transfer the property or sell the  
24 property, that goes along -- the restriction goes along  
25 with it. So if you had a restriction that said you

15

17

1 wasn't -- we didn't see the risk in groundwater that  
2 were contaminants flowing into the bay, which would be  
3 protection of the marine receptors. So there was --  
4 both those pathways were -- weren't -- there wasn't an  
5 issue.

6 So here's the risk summary [Slide 26].  
7 Basically, for each alternative, looking at current site  
8 usage or potential site usage and then the hypothetical  
9 future use, we look at these different areas and  
10 determine what chemicals of concern they are.

11 And here you'd know with asphalt there's no  
12 chemicals of concern 'cause there's not an exposure  
13 pathway. If you remove the asphalt, these are the  
14 chemicals of concern that were present.

15 And then as the alternative land uses, then you  
16 see some of these other ones, like lead end up coming  
17 into the equation.

18 So here we develop remedial action objectives  
19 for the site. Now, this is -- you know, there's a lot  
20 on the slides, so I'm not going to go through  
21 everything. But again, for each of those potential  
22 exposure scenarios for elementary school, construction  
23 worker, recreational, and a couple more, the  
24 commercial/industrial and residential receptors, which  
25 would be future land use, we developed these remedial

1 cannot put a house -- build a house on this piece of  
2 property, that restriction would go along, and you  
3 wouldn't be able to get a permit to build a house on  
4 that piece of property.

5 Alternatives 3 and 4 are just variations of the  
6 excavation. You saw there was those five different  
7 debris areas. So these we're digging up a couple of  
8 them and not digging some other ones but digging at  
9 different depths. But those aren't as important because  
10 what we're proposing here is Alternative 5, which really  
11 is digging up all five of those areas down to 6 feet,  
12 and so it's complete removal.

13 Our goal is when we get finished with the  
14 project is to walk away from the site and there would be  
15 no further risk at the site.

16 And so this [Slide 30] follows along. Yeah.  
17 Basically, we want one year for implementation, and that  
18 considers a work plan stage where we're developing what  
19 we're actually going to do in the field and the actual  
20 project as well as the closure reports that are done  
21 after that.

22 Now, are there any clarifying questions?

23 One thing that we're going to do is at the very  
24 end of the presentation, we're going to take public  
25 comments that would -- that we're going to take down,

18

1 the stenographer's going to take town, so that we can  
2 then respond to those in the Record of Decision.

3 But now if anyone has a question just on the  
4 presentation I've given so far, I can clarify. However,  
5 since you guys are leaving, I would say that if you want  
6 to make any public comments, you can go ahead.

7 MS. EBERHART: We can write our comments,  
8 right?

9 MR. PERRY: Yeah. There's forms in the back,  
10 which are -- we have for -- you can write on later and  
11 mail them in. You can E-mail us. You can fax us. You  
12 can call -- you know.

13 MS. EBERHART: Or we can get involved.

14 MR. PERRY: Yes. There's a lot of different  
15 ways to give comments, so . . .

16 MS. EBERHART: Thank you.

17 MR. SULLIVAN: Oh. Yeah. I'd just like to  
18 note that the actual Proposed Plan document has its own  
19 built-in comment form --

20 MS. EBERHART: Oh.

21 MR. SULLIVAN: -- on the -- on the last page  
22 and provides information for how to mail or fax that  
23 in.

24 And then as Charles mentioned, we also brought  
25 some separate comment sheets here tonight. Or, I mean,

19

1 you can use -- you can -- you can write -- I mean, you  
2 can write a comment on anything and send it to us. It  
3 doesn't have to be on -- you know, on this specific  
4 form.

5 MR. PERRY: And if you grab a copy of the  
6 presentation that's on the table back there, there's  
7 some slides in the back that have both Jim and my  
8 contact information as well as Ryan with the DTSC for  
9 any other comments on these specific documents.

10 MS. EBERHART: Thank you.

11 MS. DE SILVA: Thanks very much.

12 MR. PERRY: Yeah. Well, thank you for coming.  
13 And okay, let me see. It might be easier to  
14 . . .

15 Site 30, day care center. This site is located  
16 basically -- here it is [Slide 10]. It's located just  
17 below Site 31. So the site -- Site 31 that we just  
18 discussed is up here [indicating]. Here's that, the  
19 playground area; and here's 11th Street, and then the  
20 day care center is down below.

21 As we go through this site -- or the  
22 presentation, you'll see that this blue area is the  
23 actual boundary at the site, this blue line. It's kind  
24 of hard to see.

25 But the remedial action that we're talking

20

1 about here is -- in relation, it's red outline, which is  
2 the building foundation as well as this concrete pad  
3 that is off on the side. And it's kind of hard to see.  
4 It's dark. But there's a concrete pad [indicating]  
5 that's adjacent to the building.

6 So background summary [Slide 11]. It was  
7 constructed -- The day care center was constructed in  
8 1985 by the Navy. It was closed in 1997, and then it  
9 was leased to TIDA and reopened in 2003.

10 So again, along with Site 31, the discovery of  
11 this area was found at the same time. It was that  
12 as-built drawing that had the "trash dump."

13 And so some of the same CERCLA activities were  
14 done, the trenching investigation and the time-critical  
15 removal action. Because the sites are adjacent to each  
16 other, they apply to both. And then we did a separate  
17 remedial investigation and feasibility study for the  
18 site.

19 So for the human health risk assessment,  
20 there's some of the same things we looked at for  
21 Site 31. So I won't go through all of these.

22 Let's see. Yeah, this is basically the same  
23 slide.

24 So for the health risk assessment, cancer risk,  
25 we looked at risk of the day care center child, adult,

21

1 and construction worker; and everything was below the  
2 target cancer risk range of 1 in a million and -- to 1  
3 in 10,000.

4 And then we also looked for future hypothetical  
5 commercial/industrial worker and child/adult residents  
6 on this site.

7 Let's see. Oh, yeah. So for the future risk,  
8 it's within the risk management range. So it's within  
9 that 1 in a million and 1 in 10,000.

10 For noncancer for all receptors were below the  
11 hazard index of 1. And dioxins were identified as the  
12 risk drivers. So that's our chemical of concern. And  
13 dioxins are a by-product of combustion. So we think  
14 it's in that trash dump there was some burning of the  
15 material which created that dioxin.

16 And dioxin's fairly ubiquitous. Anytime you  
17 have forest fires, brush fires, if you went out and  
18 sampled those areas, you would find dioxin. But it can  
19 be hazardous at fairly low level.

20 This is basically the same ecological risk  
21 [Slide 14], same area. So no difference here for  
22 Site 30.

23 So our remedial action objectives for this site  
24 was basically for the day care center receptors, which  
25 is the current use. And so look at prevention of

22

1 ingestion and contact with the soil containing the  
2 dioxins beneath the building.  
3 And for our commercial/Industrial receptors,  
4 it's looking at preventing again ingestion and direct  
5 contact with the soils below the building and below the  
6 concrete pad adjacent to it.

7 So for this site, we have three alternatives:  
8 again, the no action alternative, which we always do, as  
9 well as the other end of the spectrum, which is building  
10 demolition, complete excavation, off-site disposal at a  
11 permitted landfill.

12 And then the alternative in the middle, which  
13 is the engineering controls and institutional controls,  
14 similar to what I discussed for Site 31 as one of the  
15 alternatives. And here the engineering controls is  
16 the -- maintain the building foundation. So that is an  
17 engineering control. If you don't dig through or cut  
18 through that foundation, you won't have exposure to the  
19 soil beneath it.

20 And institutional control is the covenants and  
21 deeds. So if the property transfers; if a worker wants  
22 to go in and, say, put in some -- what am I thinking  
23 of -- plumbing work, they have to dig down through the  
24 foundation and get into the soil; and there are certain  
25 procedures they are going to have to follow in order to

23

1 do that.

2 So . . . ah, this [Slide 17] is something that  
3 applied to the other one, but it's early in the slide.  
4 But when we look at alternatives, we go through the  
5 EPA's nine evaluation criteria; and they are categorized  
6 as threshold criteria, balancing criteria, and then  
7 modifying criteria.

8 And so we have looked at all the 1 through 7  
9 and -- well, actually, 1 through 8 state and regulatory  
10 acceptance; and then right now we're looking at  
11 Criteria 9, which is community involvement -- or  
12 community acceptance. So . . .

13 So our preferred alternative is Alternative 2,  
14 which is engineering controls and institutional  
15 controls. And so it meets up -- it meets our remedial  
16 action objectives by protecting the day care center  
17 children and adults and maintaining that foundation and  
18 then protecting the potential and future construction  
19 workers and residential or industrial workers by the  
20 deed restrictions.

21 So our controls that we are going to set up are  
22 monitoring the integrity of the building slab, so  
23 periodic inspections, and then the restrictions that we  
24 talked about.

25 And then we have what's called five-year

24

1 reviews that when you -- whenever you leave  
2 contamination in place, you have to do five-year reviews  
3 that go out and ensure that what you -- what you put in  
4 place has actually been maintained; or if site  
5 conditions change, you might need to go out and  
6 reevaluate your -- your remedial goal -- or remedial  
7 objective.

8 Are there any clarifying questions on Site 30  
9 Proposed Plan?

10 (No verbal response heard.)

11 All right. I'll move through.

12 Okay. So now we get to the public involvement  
13 part for both Sites 30 and 31 Proposed Plans. These  
14 [Slide 32] are just the general steps. In a subsequent  
15 slide, I'll show you the dates for this project.

16 But we need to public -- publish a notice in  
17 the paper. So the San Francisco Chronicle would be an  
18 example, depending on where the -- where your base or  
19 your site is.

20 The Proposed Plans are made available for  
21 review in the information repositories, and we do have  
22 information repositories: one located here in  
23 Building 1 on Treasure Island as well as one in San  
24 Francisco public library.

25 The 30-day public comment period; public

25

1 meeting, which is what we're having tonight; and then a  
2 transcript of the public meeting is produced, and then  
3 the responsiveness summary that I mentioned before is  
4 developed and is put as an appendix in the record -- in  
5 the Record of Decision.

6 So for these sites, we published that notice in  
7 the San Francisco Chronicle on September 23rd, and the  
8 public comment period is September 23rd through  
9 October 23rd. And that's important so that if there's  
10 any comments that you want to submit, if you fill out  
11 the forms or you speak tonight, you can get those  
12 comments in, and then they will be put in the  
13 responsiveness summary; they will be in the Record of  
14 Decision.

15 However, if there's comments received after  
16 that, you know, we all -- we'll always take that into  
17 consideration. It just wouldn't be able to be put into  
18 the Record of Decision.

19 And then public meeting we have here is  
20 October 7th, which is tonight. And then we will be  
21 finishing up that responsiveness summary in October,  
22 preparing the Record of Decision and the Final Remedial  
23 Action Plan in the rest of the year 2008 doing the  
24 Remedial Design, also known as a Remedial Action Work  
25 Plan, in 2008 and then taking the remedial action in

26

1 early 2009.

2 So I'm going to have Ryan Miya from the  
3 Department of Toxic Substances Control come up and go  
4 over the California Environmental Quality Act,  
5 information he's done for these sites.

6 MR. MIYA: Thank you, Charles.

7 PRESENTATION

8 BY RYAN MIYA:

9 So as Charles said, my name is Ryan Miya. I'm  
10 the project manager for the Department of Toxic  
11 Substances Control, and I'm going to talk to you today  
12 about the California Environmental Quality Act,  
13 otherwise known as CEQA.

14 And basically, this is a law that was passed in  
15 1970, and the law requires disclosure and consideration  
16 of the effects of the proposed activities, the  
17 activities that Charles just talked about, the effects  
18 of those proposed activities on the environment,  
19 identification and development of the ways to avoid or  
20 reduce environmental damage, and then finally  
21 documentation of the findings, not only for the public,  
22 folks like yourself, but also for other agencies and  
23 decision-makers as well.

24 So in order to comply with the CEQA  
25 regulations, we have prepared documents in this case.

27

1 One of them's called an Initial Study, and a Draft  
2 Negative Declaration is the other document.

3 And these CEQA documents are also useful as we  
4 work with other agencies to make sure that we meet the  
5 requirements of other related environmental laws and  
6 regulations, and some of those other laws and  
7 regulations are the federal and state Endangered Species  
8 Acts as well as the Clean Water Act.

9 And so in the Initial study, we describe the  
10 existing environment in the project area, and we  
11 identify the sensitive natural and cultural resources,  
12 describe the project activities that may affect them,  
13 and then evaluate what can be done to protect people in  
14 the environment from the harmful effects.

15 And so some of categories of things that are  
16 analyzed as a part of the CEQA impact analysis are  
17 described here. And there's actually quite a few more  
18 activities that are analyzed as a part of the CEQA  
19 document, but this is just a few of the categories that  
20 are analyzed: air quality, biological resources,  
21 cultural resources, hydrology and water quality.

22 And so we try to evaluate the project's  
23 potential impacts on the air quality, on the -- the  
24 soils, and -- and on plants and animals and their  
25 habitats.

28

1 And some of these impacts -- these general  
2 topics have already actually been discussed in quite  
3 detailed nature by Charles. But, you know, even though  
4 CEQA itself is kind of a separate process, we can make  
5 use of the existing information that we already have in  
6 some of the documents that -- that have already been  
7 prepared as part of the process that Charles was talking  
8 about.

9 So basically in terms of public involvement,  
10 the public involvement is a very important part,  
11 especially an essential part, of the CEQA process. And  
12 so by working together, we can exchange information and  
13 identify and solve some potential problems and make sure  
14 that our analysis is as accurate as possible.

15 And so we appreciate folks taking the time and  
16 effort to come out here and be informed and involved,  
17 and we would like to continue to invite you to  
18 participate in this process with us.

19 And so if you have any input that you believe  
20 we should be considering as a part of the CEQA analysis,  
21 you can call or E-mail me. You can fill out the comment  
22 forms that also Charles referenced to as well. And all  
23 the -- all the comments that we receive during the  
24 public comment period are going to have responses that  
25 we will provide during this public review period.

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1 And so the way that you can be involved with  
2 public involvement process is to be in attendance at  
3 this -- at meetings like this. You can have your name  
4 that's added to the mailing list so that you receive the  
5 publications and notices of these publications as they  
6 become available, public review.

7 You can also actually take a look at the  
8 documents themselves during the public and agency  
9 circulation period. I have a copy of the Draft Negative  
10 Declaration as well as the Initial Study document as  
11 well. But they're also -- primarily they can be found  
12 at the repositories that Charles also mentioned, one  
13 here at being on the island and the other one being in  
14 the San Francisco Public Library.

15 And then you can provide written comments on  
16 resources or issues addressed in this -- in this Initial  
17 Study and Draft Negative Declaration.

18 So I'll hand the presentation back over to  
19 Charles for some closing comments, and we'll take some  
20 comments. Thank you very much.

21 MR. PERRY: So where to submit comments: For  
22 the Proposed Plan Draft RAP, you have my contact  
23 information up there as well as Jim Sullivan, who's the  
24 BRAC environmental coordinator; and then comments on the  
25 Proposed Negative Declaration can be submitted to Ryan

30

1 Miya -- Ryan Miya.  
2 But on both of these, if comments are submitted  
3 to any of us, we -- they will be -- we'll work with each  
4 other and develop responses to them. So send them to  
5 any or all of us.  
6 And with that, are there any public comments?  
7 (No verbal response heard.)  
8 All right. Well, the meeting is drawn to a  
9 close. Thank you for attending.  
10 (Off record at 7:39 p.m., 10/7/08.)  
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## 1 CERTIFICATE OF REPORTER

2  
3 I, CHRISTINE M. NICCOLI, Certified Shorthand  
4 Reporter of the State of California, do hereby certify  
5 that the foregoing meeting was reported by me  
6 stenographically to the best of my ability at the time  
7 and place aforementioned.

8 IN WITNESS WHEREOF, I have hereunto set my hand  
9 this 15<sup>th</sup> day of July, 2009.

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12 CHRISTINE M. NICCOLI, C.S.R. NO. 4569  
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**APPENDIX D**

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**Responsiveness Summary**

## **RESPONSES TO COMMENTS**

### **PROPOSED PLAN FOR SITE 30, DAYCARE CENTER NAVAL STATION TREASURE ISLAND**

The “*Proposed Plan, Site 30, Daycare Center, Naval Station Treasure Island*,” was released for public comment on October 7, 2008. This document was prepared for the Department of the Navy by Barajas & Associates, Inc. No public comments on the Proposed Plan were received by the Navy. The California Department of Fish and Game submitted comments on the Proposed Plan on October 30, 2008. The comments were received after the publication of the Proposed Plan. The comments on the Proposed Plan appear below as they were received by the Navy, followed by the Navy’s response to each comment.

### **RESPONSES TO DFG COMMENTS**

*Comments provided by Mr. Charlie Huang, Ph.D., Staff Toxicologist, California Department of Fish and Game, Office of Spill Prevention and Response (OSPR):*

**Q: OSPR appreciates this opportunity to provide guidance on the planned cleanup at NAVSTA TI. This memorandum will serve to inform the Navy of our continuing interest in coordinating any natural resource issues, as one of the designated State natural resource Trustees.**

**A: Comment noted.**

**Q: OSPR is in concurrence with the preferred remedial alternative 2 (engineering controls combined with institutional controls) for Site 30 and alternative 5 (complete removal of debris areas A, B, C, D, and E, and off-site disposal) for Site 31. We agree that the sites pose little or no risks to ecological receptors based on the screening level ERA and both alternatives will reduce possible runoff issues.**

**A: Comment noted.**

**Q: Based on current lack of habitat and an assumption that future use will not lead to significant increase of habitat, OSPR understands that little to no significant risk is posed to ecological receptors at Sites 30 and 31. If, after the removal action, the future land use differs significantly from current uses, the Navy should contact OSPR. We will evaluate the impact to ecological receptors to see if another ERA is necessary to address ecological risks to Sites 30 and 31.**

**A: Comment noted.**

**Q: Proposed Plan/Draft Remedial Plan for Site 30: Page 2. After statement “See text box “What are the Chemicals of Concern”, “on Page 3” should be added.**

**A: The comments were received after release of the Proposed Plan, therefore, no changes could be made.**

**Q: Proposed Plan/Draft Remedial Plan for Site 31: Page 1. After comment “and at the Treasure Island Building 1 information repository” *see page 10 for information*” should be added.**

**A:** The comments were received after release of the Proposed Plan, therefore, no changes could be made.

**Q: Proposed Plan/Draft Remedial Plan for Site 31: Page 4. “Table 1 highlights the cancer risks and non-cancer hazards for receptors from Federal and State HHRAs.” However, I am unable to find “Table 1” in the document.**

**A:** The comments were received after release of the Proposed Plan, therefore, no changes could be made.

**Q: Conclusions: OSPR is in general concurrence in the preferred remedial alternative 2 for Site 30 and alternative 5 for Site 31 proposed in the documents. Numerous species of marine and terrestrial birds and waterfowl may frequent NAVSTA TI. The Navy should avoid jeopardizing any birds during the removal action. If at any time during the removal action any bird is harmed and/or killed, the OSPR requests that a OSPR biologist be contracted promptly. We look forward to continued further interactions with Navy staff on issues related to Sites 30 and 31. If you have any questions regarding this memorandum or require further details, please contact me at (916)324-9805 or by email at [chuang@ospr.dfg.ca.gov](mailto:chuang@ospr.dfg.ca.gov).**

**A:** Comment noted.

## **APPENDIX E**

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### **Regulatory Agency Comments and Department of the Navy Responses**

## **RESPONSES TO REGULATORY AGENCY COMMENTS**

### **DRAFT RECORD OF DECISION/REMEDIAL ACTION PLAN SITE 30, DAYCARE CENTER NAVAL STATION TREASURE ISLAND**

The Department of Toxic Substances Control (DTSC), Regional Water Quality Control Board (Water Board), U.S. Environmental Protection Agency (EPA), and Treasure Island Developmental Authority (TIDA) have reviewed the document entitled "*Draft Record of Decision/Final Remedial Action Plan, Site 30, Daycare Center, Naval Station Treasure Island*" dated October 2008. This document was prepared for the Department of the Navy by Barajas & Associates, Inc. DTSC comments on the draft Record of Decision/Remedial Action Plan were received in a letter from Mr. Ryan Miya dated December 28, 2008. The Water Board conveyed that they had no comments in a letter from Paisha Jorgensen dated December 8, 2008. USEPA comments were received in an email from Christine Katin dated December 8, 2008. TIDA comments were received from Mr. Gary Foote, Geomatrix, in a letter dated November 24, 2008. Responses to the comments are shown in Tables E-1 through E-3.

# TABLE E-1 RESPONSE TO REVIEW COMMENTS - DTSC

Site 30 ROD, NAVSTA TI, San Francisco, California

Document Title: Draft Record of Decision, Site 30, Daycare Center, Naval Station Treasure Island

Report Date: October 2008

Reviewer: Ryan Miya, DTSC

Review Date: December 24, 2008

| Comment No.                     | Section/ Page No.                               | Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Site 30 ROD/RAP Comments</b> |                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 1                               | Document title.                                 | Please replace "Record of Decision / Final Remedial Action Plan" with "Record of Decision / Remedial Action Plan" throughout the document. The acronym of this document should be "ROD/RAP" instead of "ROD/Final RAP".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | The title will be changed as recommended. The title "ROD/Final RAP" was a remnant of previous regulatory discussions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 2                               | Section 1.3 Assessment of the Sites.            | It is not clear how the response action selected in Site 30 ROD/RAP is appropriate to protect the health of potential human and ecological receptors from <u>future</u> releases of hazardous substances into the environment at Site 30. Please clarify or remove that portion of the statement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | The reference to future releases will be removed from the text.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3                               | Section 1.4 Description of the Selected Remedy. | <p>= Please modify paragraph three, sentence four as follows: "The selected remedy would allow for current and future use of the daycare center to continue, and would use institutional and engineering controls to maintain the building slab <u>and adjacent concrete pad</u>. The slab <u>and pad</u> would continue to serve as exposure prevention barriers for daycare center children and adults to potential contamination at the site."</p> <p>= Paragraph three. Please briefly explain how institutional controls will ensure that potential commercial/industrial and residential receptors are protected from contamination beneath the Site 30 Concrete Pad and building slab (for example, by prohibiting any future activities that may disturb or alter the concrete pad and building slab without prior notification and written approval from DTSC).</p> | <p>= The concrete pad is necessary to protect potential future industrial/commercial or residential users, not daycare center children and adults. Therefore, the building slab would be maintained to prevent contact by daycare center children and adults, and ICs would specify that any residential or commercial/industrial use that involves removal of the slab and concrete pad would require remedial investigation and potential remedial action to address contamination beneath the slab and pad.</p> <p>= Paragraph three will be amended as follows: <i>"Institutional controls would ensure that potential commercial/industrial and residential receptors were protected from contamination beneath the Site 30 Concrete Pad and building slab by prohibiting any future activities that may disturb or alter the concrete pad and building slab without prior notification and written approval from DTSC."</i></p> |

**TABLE E-1 RESPONSE TO REVIEW COMMENTS - DTSC**

Site 30 ROD, NAVSTA TI, San Francisco, California

Document Title: Draft Record of Decision, Site 30, Daycare Center, Naval Station Treasure Island

Report Date: October 2008

Reviewer: Ryan Miya, DTSC

Review Date: December 24, 2008

| Comment No. | Section/ Page No.                                              | Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4           | Section 1.7 – Declaration Statement and Authorizing Signature. | DTSC's signatory for Site 30 ROD/RAP is Daniel E. Murphy, P.E., Unit Chief, Brownfields and Environmental Restoration Program.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | The text will be revised as recommended.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 5           | Section 2.9.2 – Alternative 2.                                 | <p>Engineering Controls subsection.</p> <p>= Please include a figure presenting construction specifications of the existing daycare center building slab (Building 502).</p> <p>= The text states that maintenance of the Site 30 Concrete Pad adjacent to the Building 502 building slab is not required. However, institutional controls will restrict site occupants from removing or penetrating the exposure prevention barriers, which include both the Building 502 slab and Site 30 Concrete Pad. Therefore, Site 30 ROD/RAP should describe that institutional controls would require inspection, maintenance, and reporting of the Site 30 Concrete Pad and Building 502 building slab to ensure remedy compliance. Same comment applies to Section 2.12.2 – Description of the Selected Remedy.</p> <p>Institutional Controls subsection</p> <p>= An Operation and Maintenance Agreement between DTSC and the current property owner will be necessary in order to define the roles and responsibilities associated with ongoing cap operation and maintenance as well as establishing a financial assurance mechanism in accordance with Health and Safety Code section 25355.2(a), as applicable.</p> | <p>= A figure will be added.</p> <p>= The following sentence will be added to Section 2.9.2: "The <i>institutional control</i> would require inspection, maintenance, and reporting of the Site 30 Concrete Pad and Building 502 building slab to ensure remedy compliance." A similar sentence will be added to Section 2.12.2.</p> <p>= The requirements for establishing a financial assurance mechanism and an Operation and Maintenance Agreement are not applicable to Federal Facility response actions. An operations and maintenance plan will be prepared as part of the remedial action design. The Navy is responsible for conducting O&amp;M but may contractually arrange for third parties to assume responsibility for and perform the O&amp;M and requisite Five-Year reviews.</p> |

**TABLE E-1 RESPONSE TO REVIEW COMMENTS - DTSC**  
Site 30 ROD, NAVSTA TI, San Francisco, California

Document Title: Draft Record of Decision, Site 30, Daycare Center, Naval Station Treasure Island  
Report Date: October 2008  
Reviewer: Ryan Miya, DTSC  
Review Date: December 24, 2008

| Comment No. | Section/ Page No.                                         | Comment                                                                                                                                                                                                                                                                                                                                                                                                                                          | Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |                                                           | = The proposed Remedial Action Work Plan (RAWP) should also include specific soil management procedures and requirements that must be followed should future utility repairs and/or general building maintenance activities encounter potentially impacted soils beneath the building slab and concrete pad.                                                                                                                                     | = The text will be revised as recommended.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 6           | Section 2.10.3 – Long-Term Effectiveness and Performance. | Paragraph three, sentence one. The text states that Alternative 2 provides long-term effectiveness and permanence under “residential alternative land use scenarios”. However, it is DTSC’s understanding that Alternative 2 (engineering controls combined with institutional controls) would prohibit residential land use at Site 30. The same comment applies to Section 2.10.9 – Comparative Analysis Summary, paragraph one, sentence two. | The text in Sections 2.10.3 and 2.10.9 will be revised to state that institutional controls implemented with Alternative 2 would restrict land use at Site 30 to nonresidential or daycare center uses. The text will also state that a future variance, termination or lifting of the institutional controls to allow for residential use of the property at Site 30 would require a subsequent owner to establish that the use restriction is no longer necessary or undertake any other necessary response action to eliminate unacceptable risks posed by residual contamination to protect future residential occupants. Text will be added to Section 1.4, 2.9.2, and 2.12.2 to state that future actions to alter the institutional controls will require notification and written approval from the regulatory agencies. |
| 7           | Section 2.12.2 – Description of the Selected Remedy.      | Last paragraph. Please identify who will be conducting the requisite Five-Year Reviews (i.e., the Navy, current property owner(s), etc.). The same comment applies to Section 2.13 – Statutory Determinations, Summary of Five-Year Review Requirements for the Selected Remedy subsection.                                                                                                                                                      | The text will be revised to state that the Navy is responsible for Five-Year reviews but may contractually arrange for third parties to assume responsibility for and perform the requisite Five-Year reviews.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |



**TABLE E-1 RESPONSE TO REVIEW COMMENTS - DTSC**

Site 30 ROD, NAVSTA TI, San Francisco, California

Document Title: Draft Record of Decision, Site 30, Daycare Center, Naval Station Treasure Island

Report Date: October 2008

Reviewer: Ryan Miya, DTSC

Review Date: December 24, 2008

| Comment No. | Section/ Page No.                                               | Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Response                               |
|-------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| 8           | Section 3.4 –<br>Nonbinding<br>Allocation of<br>Responsibility. | <p>The following two paragraphs must be added as additional text to Section 3.4:</p> <p>"The sole purpose of the Nonbinding Allocation of Responsibility is to establish which Potential Responsible Parties will have an aggregate allocation in excess of 50% and can therefore convene arbitration if they so choose. The NBAR, which is based on the evidence available to the DTSC, is not binding on anyone, including PRPs, DTSC, or the arbitration panel. If a panel is convened, its proceedings are de novo and do not constitute a review of the provisional allocation. The arbitration panel's allocation will be based on the panel's application of the criteria spelled out in Health and Safety Code section 25356.3(c) to the evidence produced at the arbitration hearing. Once arbitration is convened, or waived, the NBAR has no further effect, in arbitration, litigation or any other proceeding, except that both the NBAR and the arbitration panel's allocation are admissible in a court of law, pursuant to HSC section 25356.7 for the sole purpose of showing the good faith of the parties who have discharged the arbitration panel's decision.</p> <p>"DTSC sets forth the following preliminary nonbinding allocation of responsibility for the former Naval Station Treasure Island: The U.S. Department of the Navy is allocated 100% responsibility."</p> | The text will be added as recommended. |

**TABLE E-1 RESPONSE TO REVIEW COMMENTS - DTSC**  
Site 30 ROD, NAVSTA TI, San Francisco, California

Document Title: Draft Record of Decision, Site 30, Daycare Center, Naval Station Treasure Island

Report Date: October 2008

Reviewer: Ryan Miya, DTSC

Review Date: December 24, 2008

| Comment No. | Section/ Page No.                 | Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9           | Statement of Reasons (Appendix A) | <p>Subsection 3 – Effect of Remedial Actions on Groundwater Resources – Section 25356.1(d)(3). Please briefly describe how groundwater “has been impacted by releases of chemicals at Site 30” or correct the text if this is in error.</p> <p>= Subsection 4 – Site-specific Characteristics – Section 25356.1(d)(4). Please briefly describe 1) potential for offsite migration, 2) commingling, if present, with other contamination, and 3) site-specific soil/hydrogeological conditions which may affect contaminant movement.</p> | <p>= The text will be revised to state that groundwater has not been impacted by releases of chemicals at Site 30.</p> <p>= The following text will be added to Subsection 4:</p> <p><i>Based on investigation results, dioxins were not detected in groundwater samples collected at Site 30. Dioxin has not been detected at concentrations exceeding the TI ambient TEQ levels in soil below groundwater. However, if dioxins in soil are in contact with groundwater, they are not considered volatile, tend to adsorb strongly to soil particles, and are essentially insoluble in water. In general, dioxins are retained strongly by soil and are not expected to leach to groundwater or migrate off-site to the Bay.</i></p> <p>Comingling is generally discussed for sites with groundwater contamination. Groundwater has not been impacted at Site 30.</p> |

**TABLE-2 RESPONSE TO REVIEW COMMENTS - EPA**

Site 30 ROD, NAVSTA TI, San Francisco, California

Document Title: Draft Record of Decision, Site 30, Daycare Center, Naval Station Treasure Island

Draft Record of Decision, Site 31, Former South Storage Yard, Naval Station Treasure Island

Report Date: October 2008

Reviewer: Christine Katin, US EPA

Review Date: December 8, 2008

| Comment No.                    | Section/ Page No.                             | Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GENERAL COMMENTS               |                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                |                                               | Both RODs describe site use within the context of the Draft 1996 Reuse Plan (CCSF 1996). For Site 30 in particular, the use of Building 502 is specifically identified in the Draft 1996 Reuse Plan; however, the ROD also states that recent comments by CCSF officials indicate (the possibility) that the daycare center will be relocated. (1) Is the 1996 Reuse Plan consistent with the most recent redevelopment plan? and (2) If the daycare center is relocated, will Site 30 be maintained as "institutional use" and will other uses be prohibited (this is not indicated in the section on institutional controls)? The IC requires investigation and/or remediation upon building demolition and removal, but it is not clear what would be required in the event of a change in use(r). | <p>For purposes of remedy selection the Navy and the TIDA have agreed that reasonably foreseeable reuse is established by the 1996 Reuse Plan which specifically identifies Building 502 for "Institutional Use," and states that a daycare center is planned at this building (City and County of San Francisco [CCSF] 1996). The reasonably foreseeable future use of the site will be a daycare center.</p> <p>If the daycare center is relocated in the future, the ICs would restrict use of the site to nonresidential uses. Implementation of the ICs would include establishing conditions for obtaining a variance, or termination of the ICs based upon either a change in site conditions or additional investigation and possible remediation to permit a change in use.</p> |
| ADDITIONAL COMMENTS ON SITE 30 |                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1.                             | General comment.                              | "CCSF" does not appear to be defined in the document, but the acronym is used in the text (e.g., on page 11).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CCSF, City and county of San Francisco, will be added to the acronym page and introduced in the text.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 2.                             | Risk Characterization, Page 14.               | This section has three bullets. Inconsistent with the first bullet, the second and third bullet do not state whether the risk was calculated with or without the concrete pad. Please consider editing for consistency.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | The second and third bullets will be revised to indicate that the risks for alternative land uses were calculated assuming that the concrete pad has been removed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3.                             | Contaminants of Concern for Site 30, Page 14. | Minor comment: There is a typographical error in the first sentence - "Summary" should not be capitalized.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | The text will be revised as indicated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

**TABLE-3 RESPONSE TO REVIEW COMMENTS - TIDA**  
Site 30 ROD, NAVSTA TI, San Francisco, California

Document Title: Draft Record of Decision/Final Remedial Action Plan for Site 30, Daycare Center, Naval Station Treasure Island  
Document Date: October 2008  
Reviewer: Gary R. Foote, Geomatrix, TIDA  
Review Date: November 24, 2008

| Comment No. | Section/Page No.                                            | Comment                                                                                                                                                                                                                                                                                                                                                                                                                     | Response                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1           | Section 1.7 Declaration Statement and Authorized Signature. | The last sentence in this section begins, "Furthermore, hazardous substances are present in Site 30 soils at concentrations <b>above unacceptable</b> risk levels." (emphasis added). As written, this sentence is confusing. We believe it is more correct to state that concentrations are above <b>acceptable</b> risk levels for unrestricted use, or that concentrations are <b>unacceptable</b> for unrestricted use. | The text will be changed to "above acceptable levels."                                                                                                                                                                                                                                                                                                                                                                        |
| 2           | Section 2.2 Site History and Enforcement Activities.        | The document states that "reuse of the property is currently coordinated by the City of San Francisco." It is more appropriate to state that "reuse of the property is currently coordinated by the Treasure Island Development Authority."                                                                                                                                                                                 | The text will be changed as suggested.                                                                                                                                                                                                                                                                                                                                                                                        |
| 3           | Section 2.5.1 Site Characteristics.                         | The first sentence of this section states that "Site 30 is bounded...to the east by Avenue E, to the south by 10 <sup>th</sup> Street, and to the west by the sidewalk of Avenue D." The text should clarify whether the referenced streets are included or not included within the site boundaries.                                                                                                                        | The sentence in question refers to Figure 2, which shows the site boundaries in relation to the streets. The sentence will be revised for clarification as follows: "Site 30 is bounded to the north by a line drawn 2 feet north of the daycare center fence, to the east by Avenue E (inclusive of Avenue E), to the south by 10th Street (excluding 10th Street), and to the west by the sidewalk of Avenue D (Figure 2)." |
| 4           | Section 2.5.3 Investigation History.                        | Under the heading "NAVSTA TI and Site 30 Groundwater Monitoring Program," the first sentence states that "A Basewide groundwater monitoring program was initiated in 1994, and site-specific groundwater monitoring continues to the present." As written, this heading and first statement can be misleading. They imply that there is an ongoing groundwater monitoring program at Site                                   | The heading and text in Section 2.5.3 will be revised to be consistent with the Site 31 ROD. The text will also be revised as recommended regarding the site wells and reference to Figure 3.                                                                                                                                                                                                                                 |

**TABLE E-3 RESPONSE TO REVIEW COMMENTS - TIDA**

Site 30 ROD, NAVSTA TI, San Francisco, California

Document Title: Draft Record of Decision/Final Remedial Action Plan for Site 30, Daycare Center, Naval Station Treasure Island

Document Date: October 2008

Reviewer: Gary R. Foote, Geomatrix, TIDA

Review Date: November 24, 2008

| Comment No. | Section/Page No.            | Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |                             | 30. We believe it would be better to use heading and text consistent with those used in the draft Site 31 ROD/RAP. Additionally, the text should indicate that the two wells discussed were temporary microwells, rather than permanent monitoring wells (as implied). Additionally, the third paragraph under "Exploratory Trenching and Subsurface investigations at Site 30" incorrectly indicates that the locations of dioxin samples are shown on Figure 4. These locations are shown on Figure 3.                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 5           | Section 2.6.2 Resource Use. | This section discusses potential uses of groundwater resources and cites proposed Basin Plan amendments that would de-designated potential groundwater use for municipal or domestic water supply. Because the Base Plan was never actually amended, we suggest that this section also cite the Water Board's 2001 letter that indicates that groundwater at Treasure Island meets drinking water exemption criteria.                                                                                                                                                                                                                                                        | A reference to the Water Board's 2001 letter will be added.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 6           | Section 2.10.1              | Overall Protection of Human Health and the Environment. In the last paragraph of this section, the text states, "Alternative 2 employs ECs and ICs to ensure human exposure pathways remain incomplete by (1) requiring the existing daycare center building slab remain in place and be periodically inspected, and (2) requiring any alternative future reuse of the property maintain the existing daycare center building slab as an effective exposure prevention barrier and consider soil contamination beneath the Site 30 Concrete Pad," As written, it appears that the slab will be required to remain in place for perpetuity, regardless of future reuse plans. | The text will be revised as follows: "... <i>(2) requiring any alternative future reuse of the property maintain the existing daycare center building slab as an effective exposure prevention barrier and consider soil contamination beneath the Site 30 Concrete Pad. Institutional controls would specify that any future plans to remove the building slab or Site 30 Concrete Pad would require remedial investigation and any necessary remediation. Institutional controls for the site will also contain provisions for making utility repairs beneath the slab.</i> " |

**TABLE E-3 RESPONSE TO REVIEW COMMENTS - TIDA**  
 Site 30 ROD, NAVSTA TI, San Francisco, California

Document Title: Draft Record of Decision/Final Remedial Action Plan for Site 30, Daycare Center, Naval Station Treasure Island  
 Document Date: October 2008  
 Reviewer: Gary R. Foote, Geomatrix, TIDA  
 Review Date: November 24, 2008

| Comment No. | Section/Page No.                  | Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Response                               |
|-------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
|             |                                   | Consistent with the text in Section 2.9.2 under the subheading "Institutional Controls" for Alternative 2 and the text in Section 2.12.2 (Description of the Selected Remedy), the text in Section 2.10.0 should acknowledge that the institutional controls will contain provisions for making utility repairs beneath the slab, as necessary, and will allow for building demolition and removal pending completion of a remedial investigation and any necessary remediation beneath Building 502. |                                        |
| 7           | Appendix A, Statement of Reasons. | The first sentence states that Site 30 is not currently used by the City and County of San Francisco. The text should be corrected to indicate that the site was leased to the City and County of San Francisco in 1997 and has been used by Kidango as a daycare center since March 17, 2003.                                                                                                                                                                                                        | The text will be revised as suggested. |

## **UNSCANNABLE MEDIA**

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DEPARTMENT OF THE NAVY  
BASE REALIGNMENT AND CLOSURE  
PROGRAM MANAGEMENT OFFICE WEST  
1455 FRAZEE RD, SUITE 900  
SAN DIEGO, CA 92108-4310

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**AUG 11 2009**

Ms. Remedios Sunga  
California Department of Toxic Substances Control  
Brownsfields and Environmental Restoration Program  
Berkeley Office  
700 Heinz Avenue, Suite 200  
Berkeley, CA 94710-2737

Dear Ms. Sunga:

SUBJECT: SITE 30, DAYCARE CENTER & SITE 31, FORMER SOUTH STORAGE  
YARD, RECORDS OF DECISION/REMEDIAL ACTION PLANS,  
NAVAL STATION TREASURE ISLAND, SAN FRANCISCO,  
CALIFORNIA

The final signed Sites 30 and 31 Records of Decision (ROD)/Remedial Action Plans (RAP) are provided for your information (enclosures (1) & (2)). The Navy would like to thank everyone for their continued support with these sites and the Naval Station Treasure Island Environmental Program.

For further information, please contact Mr. Charles Perry at (619) 532-0911.

Sincerely,

JAMES B. SULLIVAN  
BRAC Environmental Coordinator  
By direction of the Director

- Enclosures:
1. Record of Decision/Remedial Action Plan for Site 30, Daycare Center, Naval Station Treasure Island, San Francisco, California, July 2009
  2. Record of Decision/Remedial Action Plan for Site 31, Former South Storage Yard, Naval Station Treasure Island, San Francisco, California, July 2009



**AUG 11 2009**

**Distribution:**

Ms. Christine Katin, U.S. Environmental Protection Agency, Region IX  
Mr. Ross Steenson, California Regional Water Quality Control Board  
Ms. Mirian Saez, Treasure Island Development Authority  
Mr. Jack Sylvan, Mayor's Office of Base Reuse and Development (w/out enclosure)  
Mr. Gary Foote, AMEC-Geomatrix  
Ms. Erika Richard, Director Kidango Daycare Center  
Ms. Lavina DeSilva, Director Boys and Girls Club, Treasure Island  
Mr. Jeff Austin, Lennar Communities  
Mr. Randy Brandt, LFR, Inc.  
Ms. Marcie Rash, Tetra Tech EM Inc.

**Community RAB Members:**

Mr. Nathan Brennan  
Ms. Dale Smith  
Ms. Alice Pilram  
Mr. Saul Bloom, ARC Ecology